

## BUILDING SPECIALITY LINE



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**MAPEI**<sup>®</sup>

ADHESIVES • SEALANTS • CHEMICAL PRODUCTS FOR BUILDING

# Building speciality line

Concrete, once thought to be indestructible, is subject to a series of heavy chemical, physical, biological and mechanical attacks which, in the long term, cause its deterioration. The rise in building costs means that it is almost always more convenient to restore it. Even in very serious situations. The same applies to the masonry of historic buildings or of new construction.

Today, MAPEI can offer the most appropriate selection of materials for every kind of restoration work.

Thanks to more than sixty years of experience MAPEI has an enormous range of chemical products for building and major construction works: hydraulic binders, ready-mix mortars, waterproofing and protective agents, structural adhesives, flexible sealants and special renders. The right product for every situation; from dams to viaducts, from historic buildings to the construction for the future. For this reason MAPEI can answer any building or project requirement for the modern age construction as well as restoration programs.

For further information on the products refer to the technical data sheets contained in the MAPEI Global Infonet DVD and on the MAPEI website [www.mapei.com](http://www.mapei.com).



**\* Our Commitment To The Environment**  
More than 150 MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

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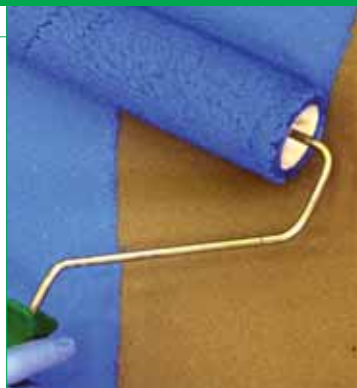
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Mapectel	19
Mapectel Eco	18
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Mapectel Graffiti Barrier	103
Mapectel Graffiti Remover Gel	103

# Soundproofing systems for flooring

New

## Mapesilent Panel



**Soundproofing system for floating screeds.** Each Mapesilent Panel is composed of a bitumen and special polymer-based elasto-plastomeric membrane with a polyester reinforcement layer, sandwiched together with a resilient layer of polyester fibre.

### Where to use:

Mapesilent Panel is used to form an efficient soundproofing system on all types of floor slab according to DPCM 5.12.97. Mapesilent Panel is applied between the structure and the floating screed prior to laying all types of flooring materials.

### Technical data:

#### Tensile strength:

- longitudinal: 700 N/50 mm;
- transvers: 500 N/50 mm.

**Resistance to impact:** 900 mm.

**Resistance to static perforation:** 15 kg.

**Impermeability to water:** > 100 kPa.

**Fire resistance:** F.

**Apparent dynamic rigidity (S't):**

11 MN/m<sup>3</sup>.

**Dynamic rigidity for calculation**

**purposes (S''): 22 MN/m<sup>3</sup>.**

**Reduction of noise caused by footsteps**

**(ΔL<sub>nm</sub>): 27.7 dB.**

**Thermal resistance (R): 0.13 m<sup>2</sup> K/W.**

**Thickness:** 13 mm.

**Format:** 1000 mm x 1000 mm tiles.

**Weight:** 5 kg/m<sup>2</sup>.

### Packaging

pallets containing 75 m<sup>2</sup>.

New

## Mapesilent Roll



**Soundproofing system for floating screeds** consisting of a bitumen and special polymer-based elasto-plastomeric membrane with a polyester reinforcement layer, sandwiched together with a resilient layer of polyester fibre and a surface dressed with a layer of blue non-woven polypropylene fabric.

### Technical data:

#### Tensile strength:

- longitudinal: 700 N/50 mm;
- transvers: 500 N/50 mm.

**Impact resistance:** 900 mm.

**Resistance to static perforation:** 15 kg.

**Impermeability to water:** > 100 kPa.

**Fire resistance:** F.

**Apparent dynamic rigidity (S't):**

15 MN/m<sup>3</sup>.

**Dynamic rigidity for calculation**

**purposes (S''): 47 MN/m<sup>3</sup>.**

**Reduction of noise caused by footsteps**

**(ΔL<sub>nm</sub>): 22.8 dB.**

**Thermal resistance (R): 0.145 m<sup>2</sup> K/W.**

**Thickness:** 8 mm.

**Format:** 1 x 10 m rolls.

**Weight:** 1.8 kg/m<sup>2</sup>.

### Packaging

10 m x 1 m-wide rolls.





New

**Mapesilent Band**

**L-shaped adhesive, closed-cell, expanded polyethylene membrane applied to perimeter walls around the edges of interruptions which pass through screeds to prevent the formation of acoustic bridges.**

**Where to use:**

**Mapesilent Band** is applied to all the walls around the perimeter of the screed, to form a soundproofing system with **Mapesilent Roll** or **Mapesilent Panel**, and around all the edges of interruptions which pass through the screed to avoid the formation of acoustic bridges.

**Technical data:**

**Thickness:** 6 mm.  
**Width of base:** 50 mm.  
**Height:** 100 mm.  
**Length:** 2 m.

**Packaging**

cardboard boxes containing 110 or 200 pieces 100 mm high and 200 cm long.

New

**Mapesilent Door**

**U-shaped adhesive, closed-cell, expanded polyethylene membrane applied in correspondence with openings in perimeter walls to avoid the formation of acoustic bridges.**

**Where to use:**

**Mapesilent Door** is applied to all the openings in perimeter walls around the screed, to form a soundproofing system with **Mapesilent Roll** or **Mapesilent Panel**.

**Technical data:**

**Thickness:** 6 mm.  
**Width of base:** 50 mm.  
**Pitch:** 105-110 mm.  
**Height:** 100 mm.  
**Length:** 90-100 mm.

**Packaging**

cardboard boxes containing 30 pieces.

New

**Mapesilent Tape**

**Adhesive butyl rubber sealant tape with a silver-coloured surface.**

**Where to use:**

**Mapesilent Tape** is used for sealing the overlapping of different pieces of **Mapesilent Band**, covering and joining the overlapping between **Mapesilent Band** and **Mapesilent Roll** and sealing the joints between **Mapesilent Panel** tiles and **Mapesilent Roll** sheets.

**Technical data:**

**Thickness:** 0.6 mm.  
**Width:** 75 mm.  
**Length:** 10 metres.

**Packaging**

10 m rolls.

# Screed preparation and repairing

## Mapecem



### Special fast setting hydraulic binder for the preparation of fast-drying screeds (24 hours) with controlled shrinkage.

Formation of floating and bonded screeds on both existing and new slabs for the installation of moisture-sensitive floors (wood, PVC, linoleum, carpet, rubber) or any other flooring where fast-drying for a rapid laying is required.

**Mapecem** must always be mixed with graded aggregates. Bonded screeds (up to 35 mm thick) and patching require the application of an anchoring slurry made up of **Mapecem** and **Planicrete**. For floating screeds (at least 4 cm thick) lay a polyethylene sheet beforehand; for a thickness of 4-5 cm the aggregates must be graded from 0 to 8 mm in diameter.

### Consumption

3.5-4.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

20 kg bags.



## Mapecem Pronto



### Ready-to-use pre-packed mortar for fast-setting and drying (24 hours) screeds with controlled shrinkage.

Formation of both floating and bonded screeds on existing and new slabs for the installation of ceramic tiles, stone material, wood, rubber, carpet or any other type of flooring where fast drying or immediate laying is required.

**Mapecem Pronto** is ready-to-use and must be mixed just with water.

**Mapecem Pronto** is the ideal solution where good quality graded aggregate is hard to find or for job sites such as those in city centres where the logistics involved in mixing conventional binders can be difficult. It can be used for screeds in interiors and exteriors. Bonded screeds and patching (thicknesses less than 3.5 cm) require the application of an anchoring slurry made up of **Mapecem Pronto** and **Planicrete** beforehand. Floating screeds (thicknesses more than 3.5 cm) must be laid over a polyethylene sheet.

### Consumption

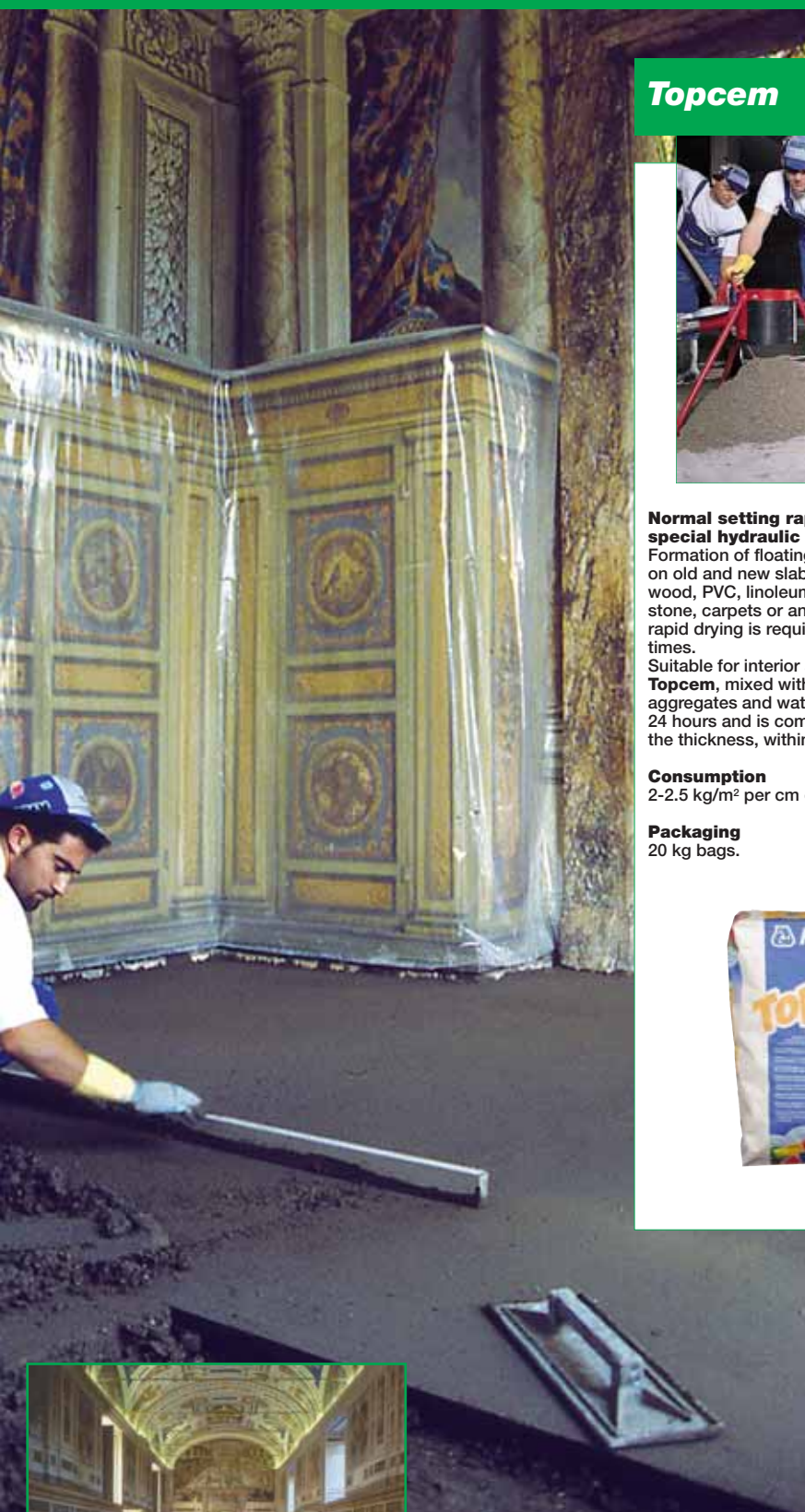
20-25 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.







## Topcem



**Normal setting rapid-drying (4 days) special hydraulic binder for screeds.**  
Formation of floating and bonded screeds on old and new slabs for the installation of wood, PVC, linoleum, ceramic tiles, natural stone, carpets or any other flooring where rapid drying is required for short installation times.  
Suitable for interior and exterior use.  
**Topcem**, mixed with suitably graded aggregates and water, hardens within 24 hours and is completely dry, whatever the thickness, within 4 days.

**Consumption**  
2-2.5 kg/m<sup>2</sup> per cm of thickness.

**Packaging**  
20 kg bags.



## Topcem Pronto



**Ready-to-use, pre-packed, normal-setting mortar with controlled shrinkage for fast-drying screeds (4 days).**

Formation of floating and bonded screeds on new or old slabs for the installation of moisture-sensitive flooring (wood, PVC, linoleum, carpet, rubber, etc.) or any other type of flooring where fast-drying screeds are required for a rapid laying.

**Topcem Pronto** is ready-to-use. Just mix with water.

**Topcem Pronto** is the ideal solution where good quality graded aggregate is hard to find or for city centres where the logistics involved in mixing conventional binders can be difficult.

**Topcem Pronto** can be used in interiors and exteriors for screeds up to 60 mm thick. Bonded screeds and patching (less than 40 mm thick) require the application, beforehand, of a bonding slurry of **Topcem Pronto** and **Planicrete**. Floating screeds (more than 40 mm thick) must be poured over polyethylene sheeting.

**Consumption**  
18-20 kg/m<sup>2</sup> per cm of thickness, depending on tamping.

**Packaging**  
25 kg bags.



SISTINE HALLS - Vatican City  
Products used: GRANIRAPID, ULTRACOLOR  
and MAPEFLEX PU21 were used to install  
porcelain tiles over MAPECEM screed

## Eporip



### Two-component epoxy based adhesive for cold joints and monolithic sealing of cracks in screeds.

**Eporip** is used to bond "fresh" concrete to old concrete, **Mapecem** screeds or **Ultratop** flooring with a cementitious substrate.

It can also be used, by pouring, to seal cracks in floors and to make rigid waterproof joints.

**Eporip** is supplied as two pre-measured components which must be mixed together until completely homogeneous.

**Eporip** has low viscosity and is easily applied with a brush both horizontally and vertically onto perfectly clean and solid substrates. Concrete should be poured within 3 hours after applying **Eporip** (at temperatures around +20°C).

### Consumption

- cold joints: 0.5-2 kg/m<sup>2</sup>;
- sealing of cracks: 1.35 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

10 kg (A+B) and 2 kg (A+B).



## Eporip Turbo



### Very fast hardening two-component polyester resin.

#### Applications:

- sealing cracks in screeds;
- by adding dry sand, **Eporip Turbo** can be used to manufacture mortars for small repairs.

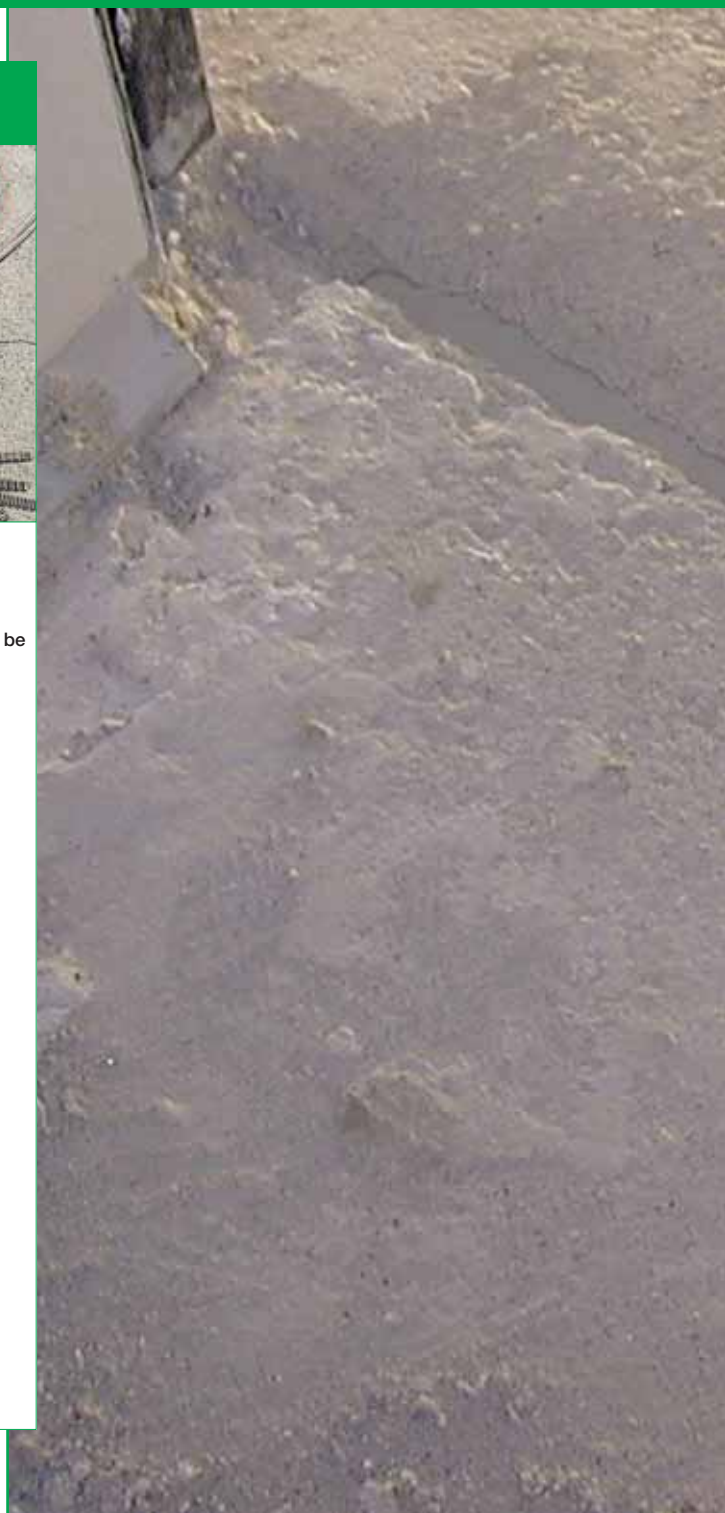
**Eporip Turbo** hardens in approximately 20 minutes.

### Consumption

1.7 kg per dm<sup>3</sup> of cavity to be filled.

### Packaging

508 g metal jars  
(Part A: 500 g; Part B: 8 g).







## Planicrete



### Synthetic rubber latex for improving adhesion of cementitious mortars.

**Planicrete** is a latex based on synthetic polymers, which cannot be re-emulsified in water after hardening and are also resistant to saponification.

When added to mortars, screeds and renders, it increases mechanical strength and adhesion to the substrate.

For the preparation of adhesive slurries, dilute 1 part of **Planicrete** with 1 part water and then mix the solution with 3 parts cement, while for the preparation of renders and screeds, dilute 1 part of **Planicrete** with 2 or 3 parts of water.

Mix with sand and cement, then place it. **Planicrete** can be mixed with **Mapecem**, **Mapecem Pronto**, **Topcem** and **Topcem Pronto** as a bonding slurry.

### Consumption

- for the preparation of adhesive slurries: 100-150 g/m<sup>2</sup>;
- for the preparation of screeds and renders: 50-80 kg/m<sup>3</sup>.

### Packaging

25 - 10 - 5 - 1 kg drums.





## Mapefluid N200



### Superplasticiser for concrete.

**Mapefluid N200** is used to manufacture concrete with high fluidity (consistency class S4 and S5 according to EN 206-1) and a high performance in service.

**Mapefluid N200** is suitable for all those applications (precast, ready mix and pumpable concrete) that require a long period of workability and a low w/c ratio.

**Mapefluid N200** can also be used for manufacturing no-slump concrete for screeds, by just reducing the w/c ratio.

**Mapefluid N200** is a brown-coloured liquid admixture with a base of active polymers in water solution that disperse cement grains. Add **Mapefluid N200** directly to the mixture after all the other ingredients (cement, aggregates, water).

**Mapefluid N200** can also be diluted into the mixing water beforehand but its superplasticising action is less effective.

### Dosage

0.5 to 1.5 l per 100 kg of cement.

### Packaging

200 l, 25 and 10 kg drums - 1000 l tanks.  
Also available in bulk on request.





## Dynamon SX



**Superplasticizer based on modified acrylic polymer for concrete with strong water reduction for traditional and self-compacting concrete.**

**Dynamon SX** is a high performance admixture based on modified acrylic polymer.

**Dynamon SX** is especially suitable for the ready mix concrete industry and wherever a strong water reduction is required along with an excellent slump retention and development of mechanical strengths of the mixture.

**Dynamon SX**, in combination with the viscosity modifying agents **Viscofluid SCC** or **Viscofluid SCC/10**, can produce self-compacting concrete without bleeding and segregation. Add **Dynamon SX** directly to the mixture after all the other ingredients (cement, aggregates, water).

### Dosage

0.5-2 l per 100 kg of cement for traditional concrete or on fine parts (0.1 mm diameter) for self-compacting concrete.

### Packaging

200 l drums - 1000 l tanks.  
Also available in bulk on request.



## Maefluid PZ500



**Superplasticiser with pozzolanic effect for high quality and chemical resistant mortar and concrete.**

**Maefluid PZ500** is used to produce durable concrete that is resistant to sulphate attack (water and soil), chlorinated water and carbon dioxide.

**Maefluid PZ500** can compensate for low cement factor aiding pumping operations and reducing any risk of segregation. **Maefluid PZ500** is also suitable to produce no-slump concrete for screeds, by just reducing the w/c ratio.

**Maefluid PZ500** improves all properties of the concrete. It provides a better cohesion of the fresh concrete, higher mechanical strengths, better waterproofing and durability against liquid and gaseous aggressive agents.

**Maefluid PZ500** must be added to the dry components of the mix (cement and aggregate) before the batching water. The **Maefluid PZ500** mix is placed and worked like normal concrete.

### Dosage

20-60 kg/m<sup>3</sup> of mix.

### Packaging

11 kg bags.  
800 kg big bags are available on request.



Piazza 1° Maggio - Cattolica - Italy  
MAPEFLUID PZ500 admixture was used to make the traditional screeds



# Primers



## Mapeprim SP



**Two-component solvent-free primer.** **Mapeprim SP** improves the bonding of smoothing and levelling compounds such as **Ultraplan**, **Ultratop** and **Planolit** on gypsum and anhydrite, on very smooth and compact substrates such as ceramic tiles and natural stone. Wait until **Mapeprim SP** becomes transparent before applying the levelling compounds. Use **Mapeprim SP** only on dry substrates and not subject to rising damp.

**Consumption**  
100-200 g/m<sup>2</sup>.

**Packaging**  
8 kg kits (A+B);  
4 kg kits (A+B).



## Primer G



**Synthetic resin based primer in water dispersion.**

Treating gypsum or anhydrite surfaces prior to the installation of ceramic tiles and stone material or before levelling or self-levelling flooring with **Ultratop**.

The surfaces to be treated must be clean and porous.

Dilute **Primer G** with water from 1:1 to 1:3 to fix the residual dusting and to provide even absorption of substrates prior to levelling or laying. Dilute **Primer G** with water 1:1 for the first coat and 1:1 to 1:2 for the second coat when used as a primer for **Ultratop**. Apply on perfectly dry gypsum or anhydrite surfaces (residual moisture content less than 0.5%).

**Consumption**  
100-200 g/m<sup>2</sup> depending on use.

**Packaging**  
25-10-5 kg drums and 12x1 kg packs.





## Eporip



### Two-component epoxy based adhesive for cold joints and monolithic sealing of cracks in screeds.

**Eporip** is used to bond "fresh" concrete to old concrete, **Mapecem** screeds or **Ultratop** flooring.

It can also be used, by pouring, to seal cracks in floors and to make rigid waterproof joints.

**Eporip** is supplied as two pre-measured components which must be mixed together until completely homogeneous.

**Eporip** has low viscosity and is easily applied with a brush both horizontally and vertically onto perfectly clean and solid substrates. Concrete should be poured within 3 hours after applying **Eporip** (at temperatures around +20°C).

### Consumption

- cold joints: 0.5-2 kg/m<sup>2</sup>;
- sealing of cracks: 1.35 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

10 kg (A+B) and 2 kg (A+B).



## Primer SN



### Two-component, solvent-free epoxy filling primer.

**Primer SN** is a two-component, solvent-free epoxy resin-based filling primer. It is used to improve the bonding of epoxy and polyurethane **Mapecem** Systems and is used for protecting and coating industrial floors in concrete and cement terrazzo.

**Primer SN** is characterised by its capacity to penetrate well into the substrate and may also be used on substrates which are slightly damp (maximum humidity level 4%). It is also possible to carry out a preliminary levelling out of surfaces which have a slightly rough finish, by applying a single coat of **Primer SN** blended with up to a maximum of 50% of **Quartz 0.5**. If necessary (in the presence of cracking, mixed substrates, such as concrete/ceramic or concrete/natural stone, etc.), the layer may be reinforced using **Primer SN** with **Mesh 320** glass fibre mesh, in order to evenly distribute any stresses generated in the substrate.

**Primer SN** may also be used instead of **Primer G** or **Mapecem SP** to prime substrates, before applying **Ultratop** cementitious-based self-levelling mortar when laying wear-resistant industrial and domestic floors.

After mixing the two pre-dosed components which make up **Primer SN**, apply the product using either a metal trowel or smooth rake onto the substrate which has been correctly prepared. Immediately after application, sprinkle the fresh surface with **Quartz 0.5**, to guarantee perfect bonding of the successive **Mapecem System** resin dressing coats, or with **Quartz 1.2**, if the floor is to be treated with **Ultratop**.

### Consumption

0.3-0.6 kg/m<sup>2</sup> per coat, according to the absorption and characteristics of the substrate.

### Packaging

20 kg kits:  
component A = 16 kg;  
component B = 4 kg.



# Smoothing screeds and existing flooring



## Ultraplan Eco



**Ultra-fast hardening self-levelling smoothing compound for thicknesses from 1 to 10 mm per coat with a very low VOC content.**

Interior levelling on new or existing substrates, ready to receive all kinds of flooring where the maximum resistance to loads and traffic is required, as long as the floors are sound, dry, clean and not subject to rising damp.

**Ultraplan Eco** is applied in thicknesses up to 10 mm per coat with a trowel or pump. When applying over timber floors the minimum thickness should be 3 mm. The timber floor must be treated first with a coat of **Mapeprim SP** and a fibreglass mesh must be stapled to the existing floor. Apply **Ultraplan Eco** in a layer of at least 5 mm thick.

### Consumption

16 kg/m<sup>2</sup> per cm of thickness.

### Packaging

23 kg bags.





## Ultraplan



### Ultra-fast hardening self-levelling smoothing compound for thicknesses from 1 to 10 mm per coat.

Interior levelling on new or existing substrates, ready to receive all kinds of flooring where the maximum resistance to loads and traffic is required, as long as the floors are sound, dry, clean and not subject to rising damp.

**Ultraplan** is applied in thicknesses up to 10 mm per coat with a trowel or pump. When applying over timber floors the minimum thickness should be 3 mm. The timber floor must be treated first with a coat of **Mapeprim SP** and a fibreglass mesh must be stapled to the existing floor. Apply **Ultraplan** in a layer of at least 5 mm thick.

#### Consumption

16 kg/m<sup>2</sup> per cm of thickness.

#### Packaging

23 kg bags.



## Ultraplan Maxi



### Ultra-fast hardening self-levelling smoothing compound for thicknesses from 3 to 30 mm per coat.

Interior levelling on new or existing substrates, ready to receive all kinds of flooring where the maximum resistance to loads and traffic is required, as long as the floors are sound, dry, clean and not subject to rising damp.

**Ultraplan Maxi** is applied in coats from 3 to 30 mm thick with a trowel or a pump.

#### Consumption

17 kg/m<sup>2</sup> per cm of thickness.

#### Packaging

25 kg bags.



POSTGIROBYGGET - Oslo - Norway  
Products used: Rescon MAPEI  
primers and self-levelling compounds



## Plano 3



### Fast hardening self-levelling smoothing compound.

Interior levelling on new or existing substrates, ready to receive all kinds of flooring where a good resistance to traffic loads is required as long as the floors are sound, dry, clean and not subject to rising damp.

Particularly suitable for the preparation of substrates for raising floors.

Apply in coats from 3 to 10 mm with a trowel or pump.

### Consumption

16 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Fiberplan



### Ultra-fast hardening self levelling fibre reinforced smoothing compound.

Interior smoothing and levelling thicknesses from 3 to 10 mm of existing and new wooden and timber floors, wooden boarding, chip-board panels and ply-wood.

Smoothing cement, terrazzo, old ceramic tile and natural stone substrates.

**Fiberplan** is suitable for wheeled chair traffic and for heated floors.

### Consumption

15 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Nivorapid



### Ultra-fast drying thixotropic cementitious levelling mortar for horizontal and vertical surfaces.

Interior levelling of all types of substrates normally found in the building industry provided they are clean and not subject to moisture, such as concrete slabs and walls, masonry, renders and cementitious screeds, etc. Also suitable for existing floors and walls, natural stone and terrazzo floors. Suitable for repairing or levelling steps, edges of pillars, depressions and holes of floors, walls and soffits. Especially recommended when the substrate must be put back into service within a short time. By mixing **Nivorapid** with **Latex Plus** in substitution to water, a highly deformable smoothing compound is obtained with excellent bonding strength also on surfaces in metal, old rubber floors, PVC, chipboard wood, parquet, linoleum, etc.

#### Consumption

16 kg/m<sup>2</sup> per cm of thickness.

#### Packaging

25 kg bags and 4x5 kg packs.



## Latex Plus



### Elasticising admixture to be mixed with Nivorapid for increased deformability and improved adhesion on difficult surfaces.

When mixed with **Nivorapid**, **Latex Plus** becomes an ultra-rapid cementitious levelling compound whose deformability and adhesive strength is suitable for use on highly deformable indoor surfaces (wood, metal, PVC, rubber, etc.).

**Latex Plus** must substitute the total amount of the mixing water normally used.

#### Consumption

used with **Nivorapid**: 6 kg/m<sup>2</sup> per cm of thickness.

#### Packaging

10 kg drums.





# Protecting reinforcing rods



## Mapefer



### Two-component corrosion-inhibiting cementitious mortar for the protection of reinforcing rods.

**Mapefer** is a mortar made up of polymers in water dispersion, cement binders and corrosion inhibitors to apply on reinforcing rods when repairing concrete.

**Mapefer** is supplied as two pre-measured components which must be mixed without adding water or other ingredients.

**Mapefer** is applied by brush to the rods which must be free of rust, oil, grease and loose particles. The rods must be cleaned beforehand by vigorous scrubbing or sand-blasting.

After **Mapefer** has dried (minimum 4 hours), a repair mortar can be applied (**Mapegrout** range).

#### Consumption

150 g/m for rods 10 mm in diameter.

#### Packaging

2 kg (A+B).



## Mapefer 1K



### One-component corrosion-inhibiting cementitious mortar for the protection of reinforcing rods.

**Mapefer 1K** is used as a re-alkalising corrosion-inhibiting protection for reinforcing rods, in the repair of concrete carried out with shrinkage compensating mortars from the **Mapegrout** range or with normal cementitious mortars modified with synthetic resin latexes. It can be applied also in underground concrete constructions.

**Mapefer 1K** is a one-component mortar based on polymers in water dispersion, cement binders and corrosion inhibitors, to be applied on reinforcing rods to prevent rust formation.

Apply two coats of **Mapefer 1K** with a brush on the re-bars freed of rust. The second coat can be applied after about 2 hours after the application of the first coat but preferably within 24 hours. It is recommended to completely cover the surfaces of the rods in one homogeneous coat. The total thickness of the two coats must be approximately 2 mm. Repair with products from the **Mapegrout** range must be carried out once **Mapefer 1K** is dry (approximately 6 hours at +20°C).

**Mapefer 1K** meets the minimum requirements of EN 1504-7.

#### Consumption

200 g/m (approximately 2 mm of applied product on an 8 mm diameter rod).

#### Packaging

carton boxes each containing four 5 kg bags.





# Repairing with controlled shrinkage mortars

## Mapegrout Thixotropic



### Controlled-shrinkage fibre-reinforced mortar for the repair of concrete.

Use **Mapegrout Thixotropic** for all concrete repairs such as: reconstruction of concrete cover, repairs of corners, beams, columns and balconies damaged by rusted reinforcing rods.

Due to its high mechanical strength **Mapegrout Thixotropic** can be used for structural repairs.

Made from cement binders, graded aggregate, special additives and synthetic fibres, **Mapegrout Thixotropic** is prepared by mixing a 25 kg bag with 3.8-4.1 litres of water.

**Mapegrout Thixotropic** is applied by trowel, float or sprayer onto sound substrates, which must be free of loose particles, have a rough surface and been soaked with water beforehand.

Repairs up to 30-35 mm thick in a single coat can be made without using formwork.

To improve open-air curing and further reduce shrinkage, **Mapegrout Thixotropic** can be mixed with 0.25% by weight of **Mapecure SRA**, curing agent.

**Mapegrout Thixotropic** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Consumption

19 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



Asturiano Centre Building - Havana - Cuba  
Reparation and protection of the building façades with:  
MAPEGROUT THIXOTROPIC,  
MAPEFER, MAPE-ANTIQUE FC, MAPE-ANTIQUE MC,  
MAPE-ANTIQUE LC, SILEXCOLOR PAINT



## Mapegrout T40



### Medium strength (40 MPa) fibre-reinforced thixotropic mortar for the repair of concrete.

Use **Mapegrout T40** to repair damaged concrete surfaces such as balconies and corners of columns and beams.

**Mapegrout T40** is also recommended for repair work in tunnels, canals and water works in general.

**Mapegrout T40** can also be used to repair surfaces permanently in contact with drinking water.

**Mapegrout T40**, mixed with about 16% water, forms a very workable mortar with a thixotropic consistency that is easily applied on vertical surfaces without shuttering.

**Mapegrout T40** is applied by trowel, float or sprayer onto sound, rough substrates that are free of loose particles, and been saturated with water beforehand.

Repairs up to 30-35 mm thick in a single coat can be made.

To improve open-air curing and further reduce shrinkage, **Mapegrout T40** can be mixed with 0.25% by weight of **Mapecure SRA**, curing agent.

**Mapegrout T40** meets the minimum requirements of EN 1504-3 standards for R3-class structural mortar.

### Consumption

18.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



*Tower reservoir - Adria - Italy*

*Reparation and protection of concrete of the reservoir with:*

*MAPEFER, MAPEFILL, MAPEGROUT T40,*

*MAPE-ANTIQUE RINZAFFO, MAPE-ANTIQUE MC,*

*NIVOPLAN, PLANICRETE, IDROSILEX PRONTO, MAPELASTIC, IDROSTOP,*

*IDROSTOP MASTIC, MAPECOAT I 24, PLANITOP 100, MONOFINISH,*

*SILANCOLOR PRIMER, SILANCOLOR PAINT,*

*ELASTOCOLOR PRIMER, ELASTOCOLOR PAINT*

## Mapegrout T60



### Sulphate-resistant thixotropic fibre-reinforced mortar for the repair of concrete.

Use **Mapegrout T60** to repair damaged concrete surfaces such as balconies and corners of columns and beams.

**Mapegrout T60** is also recommended for repair work in tunnels, canals and water works in general.

**Mapegrout T60**, mixed with about 17% water, and 0.25 of **Mapecure SRA** forms a very workable mortar with a thixotropic consistency that is easily applied on vertical surfaces without shuttering.

The product may be used without adding **Mapecure SRA**, when environmental conditions permit excellent curing.

**Mapegrout T60** is applied by trowel, float or sprayer onto damp substrates that are sound, rough and free of loose particles, and been saturated with water beforehand. Repairs up to 40 mm thick in a single coat can be made.

**Mapegrout T60** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Consumption

18.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Mapegrout FMR



### Two-component shrinkage compensated sulphate resistant thixotropic mortar to be reinforced with flexible metal alloy fibres, particularly suitable for the repair of concrete structures where more ductility is required.

Use **Mapegrout FMR** to repair damaged concrete structures such as tunnels, highways, road and train viaducts, dam spillways, overflow canals, industrial flooring and ramps.

When mixed with **Fibres FF** (inoxidizable flexible fibres composed of a special amorphous metal alloy of iron-chrome) and water, **Mapegrout FMR** becomes an easily workable mortar. Thanks to the excellent thixotropic property of **Mapegrout FMR**, it can be applied on vertical surfaces even in great thicknesses without formwork.

**Fibres FF** are available in water-soluble bags, net weight 375 g each. Mix ratio: 1 bag of **Fibres FF** per 25 kg bag of the powder product.

**Mapegrout FMR** is applied by trowel or a render sprayer (e.g. Turbosol or Putzmeister) after the surface has first been saturated with water, in a maximum thickness of 50 mm per coat.

To improve open-air curing and further reduce shrinkage, **Mapegrout FMR** can be mixed with 0.25% by weight of **Mapecure SRA**, curing agent.

**Mapegrout FMR**, with the addition of **Fibres FF**, meets the minimum requirements of EN 1504-3 standard for R4-class structural mortar.

### Consumption

19 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags + 375 g water-soluble bags of **Fibres FF**.



## Fibres FF



### Inoxidizable flexible fibres in amorphous iron and chrome alloy to be added to Mapegrout FMR to improve its ductility.

**Fibres FF** are composed of a special amorphous iron and chrome alloy. The flexibility and high aspect ratio (length/diameter) of **Fibres FF** make mortars highly ductile and shock resistant. All the **Mapegrout** range mortars can be reinforced with the addition of 1.0-1.5% **Fibres FF** by weight (approximately 20-30 kg/m<sup>3</sup> of prepared mortar) of the dry ready mix.

### Consumption

375 g per 25 kg bag of **Mapegrout FMR**.

### Packaging

375 g water-soluble bags.





## Mapegrout Easy Flow GF



**One component, shrinkage-compensated, sulphate-resistant, thixotropic, inorganic fibre-reinforced mortar, for repairing concrete structures where higher ductility is required.**

**Mapegrout Easy Flow GF** is used for repairing deteriorated concrete structures such as pillars, the inside face of road and railway viaducts, hydraulic works such as canals, dam walls, overflow channels, cleaning basins and tanks, concrete industrial floors and access ramps.

**Mapegrout Easy Flow GF** mixed with 15.5-16.5 of water and 0.25% of **Mapecure SRA** is particularly suitable for spray application and whenever easy pumping over long distances and to elevated positions is required.

The product may be used without adding **Mapecure SRA**, when environmental conditions permit excellent curing.

Thanks to its highly thixotropic properties, **Mapegrout Easy Flow GF** may be applied mechanically or by hand on vertical surfaces, even in thick layers without the use of formwork.

Maximum recommended thickness per layer is 50 mm.

**Mapegrout Easy Flow GF** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Consumption

18.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags;  
1500 kg big-bags.



## Mapegrout BM



**Two-component thixotropic cementitious mortar with low modulus of elasticity for the repair of concrete.**

**Mapegrout BM** is recommended for surface repair of damaged concrete subject to small deformation under loads, to thermal cycles or especially adverse weather conditions.

**Mapegrout BM** is recommended also for repairing concrete beams, columns, balconies, and precast concrete sections.

**Mapegrout BM** has excellent waterproofing properties and is therefore recommended for repairing canals, water tanks and hydraulic projects in general.

**Mapegrout BM**, because of its low modulus of elasticity, is recommended for the repair of concrete with moderate mechanical strength.

**Mapegrout BM** is applied with trowel or spray even on vertical surfaces or ceilings without formwork in a maximum thickness of approx. 35 mm per layer.

The substrate must be sound, compact and rough. Before applying **Mapegrout BM**, the surface to be repaired should be saturated with water.

**Mapegrout BM** may be mixed with 0.25% in weight of **Mapecure SRA**, curing agent.

**Mapegrout BM** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Consumption

approx. 21 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags;  
4.7 kg drums.



## Mapegrout Fast-Set



**Controlled-shrinkage, fibre-reinforced mortar, with rapid setting and hardening for the repair of concrete.**

Use **Mapegrout Fast-Set** to repair damaged concrete surfaces such as balconies and the edges of beams and columns.

**Mapegrout Fast-Set** is composed of special hydraulic binders, selected aggregate, special additives and synthetic fibres, and is prepared by mixing a 25 kg bag with 3.75-4 litres of water.

**Mapegrout Fast-Set** must be applied within 10 minutes of preparation, by trowel onto a clean sound substrate, which has been previously soaked with water. Apply up to a maximum thickness of 20-25 mm per layer.

**Mapegrout Fast-Set** sets within

30 minutes at +20°C and is ready for use within a few hours after application.

**Mapegrout Fast-Set** meets the minimum requirements of EN 1504-3 standards for R3-class structural mortar.

### Consumption

18 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



Le Phare de Palavas Les Flot - France  
Repair of the concrete of the building with:  
MAPEFER, MAPEGROUT FAST-SET



## Planitop 400



**Fast setting shrinkage compensated thixotropic mortar for cortical restoration of concrete by applying in a single coat a thickness of mortar variable between 1 and 40 mm.**

**Planitop 400** is used for deep cortical restoration of damaged reinforced concrete such as cornices and front side of the concrete slab of balconies, damaged corners, beams and columns, concrete panels and patch-work concrete.

**Planitop 400** is a pre-packed powder that consists of special hydraulic binders, selected fine graded aggregate and special additives.

**Planitop 400** is prepared by mixing one 25 kg bag with 3.75-4 l of clean water and must be applied within 10 minutes with a trowel or float on a sound clean substrate that has been previously saturated with water. The maximum thickness that can be applied is 40 mm. Surfaces are ready to use after several hours after the application of **Planitop 400**.

**Planitop 400** meets the minimum requirements of EN 1504-3 standards for R3-class structural mortar.

### Consumption

18.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags and boxes containing 4 bags each of 5 kg.



## Planitop 430



**Fine-grained, thixotropic, fibre-reinforced, controlled-shrinkage, medium-strength (30 MPa) mortar for restoring concrete.**

**Planitop 430** is used for repairs on the surface of deteriorated concrete structures, such as the fronts of balconies and the corners of pillars and beams.

**Planitop 430** is also suitable for repairing tunnels, canals and general hydraulic works. A further use for **Planitop 430** is for the repair of surfaces which are in permanent contact with drinking water. When mixed with 17.5-18.5% of water, **Planitop 430** forms a highly workable mortar with a thixotropic consistency, which is easy to apply on vertical surfaces without using fixed formwork.

**Planitop 430** is applied by trowel or spray rendering machine on solid substrates which are free of loose parts, and which have a rough surface saturated beforehand with water.

**Planitop 430** may be used to repair thicknesses of from 5 to 35 mm in a single layer.

**Planitop 430** may be mixed with 0.25% in weight of **Mapecure SRA**, curing agent only when it is applied by hand.

**Planitop 430** meets the minimum requirements of EN 1504-3 standards for R3-class structural mortar.

### Consumption

17 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.





## Mapegrout Gunitite



**One-component pre-packed multi-purpose non-accelerated cementitious mortar applied using either the dry or damp spraying technique.**

Mapegrout Gunitite is used for all repair of damaged concrete, such as concrete linings in road tunnels, repair of damaged bridges, repair of hydro works, reservoirs, industrial concrete structures, etc. Due to its high mechanical properties, Mapegrout Gunitite can be used for structural repairs.

Mapegrout Gunitite is composed of hydraulic binders, microsilicates, selected aggregate, and special additives and is applied with a special dry or damp mix spray machine on a clean and rough surface after it has been saturated with water.

Mapegrout Gunitite can be applied in thicknesses up to 40 mm per coat without using formwork.

Mapegrout Gunitite meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

**Consumption**  
approx. 20 kg/m<sup>2</sup> per cm of thickness.

**Packaging**  
25 kg bags.



## Mapegrout Hi-Flow



**Controlled-shrinkage fibre-reinforced fluid mortar for concrete repair.**

Use Mapegrout Hi-Flow for the repair of very damaged concrete structures where the use of fluid mortars is recommended. Made of cement binders, selected graded aggregate special additives and synthetic fibres, Mapegrout Hi-Flow is prepared by mixing a 25 kg bag with 13-14 and 0.25% of Mapecure SRA.

The product may be used without adding Mapecure SRA, when environmental conditions permit excellent curing. The mix must be poured into sealed formwork. Care must be taken to let air escape in order to prevent air-bubbles. Thicknesses up to 4 cm can be repaired with Mapegrout Hi-Flow. For greater thicknesses, the addition of appropriately graded aggregate is recommended.

Mapegrout Hi-Flow meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

**Consumption**  
21 kg/m<sup>2</sup> per cm of thickness.

**Packaging**  
25 kg bags.



## Mapegrout Hi-Flow GF

New



**Castable, shrinkage-compensated cementitious mortar reinforced with inorganic fibres, for repairing concrete structures where higher ductility is required.**

Mapegrout Hi-Flow GF is used to repair concrete structures where high thicknesses and special conformations of deterioration require the use of a castable mortar. Made up of high-strength cement, selected aggregates, special admixes, polyacrylonitrile synthetic fibres and inorganic fibres, Mapegrout Hi-Flow GF is prepared by mixing the contents of one sack with 14-15% of water and 0.25% of Mapecure SRA. The product may also be used without adding Mapecure SRA, in those cases where climatic conditions allow for a favourable curing cycle. The mix is poured in from one side only of the sealed formwork in a continuous flow, making sure that all the air is released to avoid the formation of air pockets. Repairs of up to 5cm thick may be carried out using Mapegrout Hi-Flow GF without having to insert electro-welded support mesh. For higher thicknesses, we recommend adding aggregates with a suitable grain size mix.

Mapegrout Hi-Flow GF meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

**Consumption**  
approximately 21 kg/m<sup>2</sup> per cm of thickness.

**Packaging**  
25 kg bags.



Landucci condominium - Florence - Italy  
 Reparation and protection of the condominium façade with: MAPEFER 1K,  
 MAPEGROUT FAST-SET, PLANITOP 400, PLANITOP 560, SILANCOLOR  
 PRIMER, SILANCOLOR PAINT

## Mapegrout Hi-Flow TI 20



**Castable, shrinkage-compensated, fibre-reinforced, high-ductility cementitious mortar, used in conjunction with stiff steel fibres for repairing concrete.**

**Mapegrout Hi-Flow TI 20** is used to repair concrete structures where high thicknesses and special conformations of deterioration require the use of a castable mortar. Made up of high-strength cement, selected aggregates, special admixes and polyacrylonitrile synthetic fibres, **Mapegrout Hi-Flow TI 20** is prepared by mixing the contents of one sack with 14-16% of water, 0.25% **Mapecure SRA** and 4.5% of **Fibres R60**, rigid hooked fibres in zinc-plated steel.

The product may also be used without adding **Mapecure SRA** if the weather conditions allow for optimum curing. Also, when repairing structures where the mortar does not need to be highly ductile, **Mapegrout Hi-Flow TI 20** may be used without adding **Fibres R60**.

The mix is cast from one side only of the sealed formwork in a continuous flow, making sure that all the air is released to avoid the formation of air bubbles in the mix. Repairs of up to 5 cm thick may be carried out using **Mapegrout Hi-Flow TI 20** without having to insert electro-welded support mesh.

For greater thicknesses, we recommend adding aggregates with a suitable grain size mix.

**Mapegrout Hi-Flow TI 20** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Consumption

approx. 20 kg/m<sup>2</sup> per mm of thickness.

### Packaging

- **Mapegrout Hi-Flow TI 20**: 25 kg bags;
- **Fibres R60**: 4.5 kg boxes.



## Fibres R60



**Rigid hooked fibres in zinc-plated steel, added to Mapegrout Hi-Flow TI 20 to improve ductility.**

**Fibres R60** is made up of cold-drawn, zinc-plated steel wire with a hooked tip. The high shape ratio (length/diameter) of **Fibres R60** gives **Mapegrout Hi-Flow TI 20** high ductility and impact strength. **Fibres R60** is supplied in sheets of fibres glued together to make it easier to add them to the mix. Once added to **Mapegrout Hi-Flow TI 20** mixed with water, the fibres separate and are distributed evenly in the mix.

**Fibres R60** has the following characteristics:

- length: 30 mm;
- diameter: 0.6 mm;
- tensile strength: > 1200 MPa;
- modulus of elasticity: 210 GPa.

**Mapegrout Hi-Flow TI 20** must be strengthened with **Fibres R60** at a rate of 4.5% of the weight of the dry pre-blended mix.

### Consumption

4.5 kg per 100 kg of **Mapegrout Hi-Flow TI 20**.

### Packaging

4.5 kg boxes.





## Mapegrout SV



**Quick-setting, easy-pour, controlled-shrinkage mortar for repairing concrete and fastening drains, manhole covers and roadwork fittings in place.**

**Mapegrout SV** is used for repairing highly-deteriorated concrete structures, by pouring the product into formwork positioned around the said structure. It may also be used for repairing floors for industrial use, and for construction work on roads and in airports which need to be reopened to traffic quickly.

Thanks to its short setting time, **Mapegrout SV** is particularly suitable for quickly fixing inspection wells, manhole covers and drain covers in place.

Made up of cementitious binders and special additives, **Mapegrout SV** is prepared by blending the contents of one 25 kg bag of the product with 3.0-3.25 l of water, depending on the consistency required.

Once prepared, the mortar is poured into the areas to be filled or into the formwork. With **Mapegrout SV**, repair work or fills of up to 50 mm in thickness may be carried out. If the layer to be installed is thicker than 50 mm, we recommend adding 40% of **Gravel 6-10**, and to blend the mix with approximately 3.5 l of water.

Areas repaired with **Mapegrout SV** may be opened to traffic approximately 2 hours after pouring, at a temperature of +20°C.

**Mapegrout SV** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Colours

available in grey and black.

### Consumption

- applied neat: 20 kg/m<sup>2</sup> per cm of thickness;
- used with 40% of gravel in the mix: 14.5 kg/m<sup>2</sup> per cm of thickness (5.7 kg/m<sup>2</sup> of **Gravel 6-10**).

### Packaging

25 kg bags.



## Mapegrout SV T



**Quick-setting, shrinkage-controlled, thixotropic mortar for repairing concrete, fixing drains, manholes and urban fixtures.**

**Mapegrout SV T** is used for repairing highly deteriorated *in-situ* concrete elements, both vertical and horizontal, without the use of formwork. It may also be used for repairing industrial floors, and for construction work on roads and in airports which need to be reopened to traffic quickly. The rapid hardening properties of **Mapegrout SV T** are particularly suitable for reinstating, inspection wells, manholes and drain covers. Containing cementitious binders, selected inert materials and special additives, **Mapegrout SV T** is prepared by blending the contents of one 25 kg bag of the product with 3.1-3.4 litres of water.

After preparation, **Mapegrout SV T** may be applied by trowel for repairs up to 50 mm thick. **Mapegrout SV T** may be opened to traffic approximately 2 hours after placing, at a temperature of +23°C. **Mapegrout SV T** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Colours

available in grey and black.

### Consumption

20 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Mapegrout SV Fiber



**Castable, compensated shrinkage, quick setting and hardening, high-ductility cementitious mortar applied at temperatures down to -5°C, used in conjunction with stiff steel fibres for repairing concrete.**

**Mapegrout SV Fiber** is used for repairing structural elements, by pouring the product into formwork positioned around the structure. Thanks to its high ductility, **Mapegrout SV Fiber** is particularly recommended for repairing roads, motorways, airports and industrial floors which, apart from being subject to dynamic loads, must be reopened to traffic as quickly as possible. Because of its quick-setting characteristics, **Mapegrout SV Fiber** may be used at temperatures down to -5°C. Made up of high-strength cement, selected aggregates, special admixes and special admixes, **Mapegrout SV Fiber** is prepared by mixing the contents of one sack with 13.5-14.5% of water and 2.5% of **Fibres R38**, rigid hooked fibres in brass-plated steel. The mix is cast from one side only of the sealed formwork in a continuous flow, making sure that all the air is released to avoid the formation of air bubbles in the mix. With **Mapegrout SV Fiber**, repairs may be carried out up to a thickness of 5 cm. If thicker layers are required, we recommend adding aggregates with a suitable particle size distribution.

**Mapegrout SV Fiber** with added **Fibres R38** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Consumption

Approx. 20 kg/m<sup>2</sup> per mm of thickness.

### Packaging

- **Mapegrout SV Fiber**: 25 kg bags;
- **Fibres R38**: boxes of six 2.5 kg bags.



## Fibres R38



**Rigid hooked fibres in brass-plated steel, added to Mapegrout SV Fiber to improve ductility.**

Fibres R38 is made up of brass-plated steel wire with a hooked tip. The high shape ratio (length/diameter) of Fibres R38 gives Mapegrout SV Fiber ductility and impact strength.

Fibres R38 is supplied in sheets of fibres glued together to make it easier to add them to the mix. Once added to Mapegrout SV Fiber mixed with water, the fibres separate and are distributed evenly in the mix.

Fibres R38 has the following characteristics:

- length: 30 mm;
- diameter: 0.38 mm;
- tensile strength: > 2600 MPa.

Mapegrout SV Fiber must be strengthened with Fibres R38 at a rate of 2.5% of the weight of the dry pre-blended mix.

### Consumption

2.5 kg per 100 kg of Mapegrout SV Fiber.

### Packaging

boxes of six 2.5 kg bags.



## Gravel 3-5 Gravel 6-10



**Gravel 3-5 and Gravel 6-10 are selected and graded in a range of 3 to 5 mm and 6 to 10 mm respectively, and are used for preparing castable mortar poured into formwork for thicknesses of more than 2 cm.**

Gravel 3-5 is a silica-based stone aggregate selected and graded in a range of from 3 to 5 mm, and is used for mixing mortar from the Mapegrout range when the thickness to be repaired is more than 2 cm.

Gravel 6-10 is a silica-based stone aggregate selected and graded in a range of from 6 to 10 mm, and is used for mixing repair mortar such as Mapegrout Hi-Flow or expanded mortar such as Mapefill when the thickness to be repaired is more than 2 cm.

### Consumption

#### Gravel 3-5:

30-100% of the weight of the pre-blended mix, according to the thickness to be repaired and the fluidity required.

#### Gravel 6-10:

30-100% of the weight of the pre-blended mix, according to the thickness to be repaired and the fluidity required.

### Packaging

Gravel 3-5: 25 kg bags;

Gravel 6-10: 25 kg bags.

## Mapestart 1



**Pumping aid admix for mortar and concrete.**

Mapestart 1 is a powder admix developed to lubricate tubes and pumping lines, and helps the cementitious mix to start flowing.

Mapestart 1 may be mixed easily with water directly inside the hopper. Once the admix has been emptied from the hopper, the cementitious mix may be pumped. Never add Mapestart 1 to the mix.

Mapestart 1 forms an extremely thin film in the pumping lines, which reduces friction between the walls of the pipes and the cementitious mix pumped along them, to reduce the risk of blockages.

Also, if Mapestart 1 is used at the end of the pumping operations, the pipes will be cleaner and will have a longer service life.

### Consumption

Dependent on the characteristics of the pump (size and power) and the pumping lines (length and size).

### Packaging

boxes of forty 225 g bags.





# Repairing with cementitious binders



## Stabilcem



**Very fluid expanding cementitious binder for the preparation of injection slurries, mortars and concrete.**

Use **Stabilcem** to prepare shrinkage-compensated injection slurries, mortars and concrete.

**Stabilcem** can be used for filling cavities and cracks into rock and brickwork and for filling internal porosity of concrete. Due to its characteristics, self-levelling concretes obtained with **Stabilcem** can be pumped under high mechanical pressure without any risk of segregation.

Mix **Stabilcem** with appropriately graded aggregate, depending on the type of work to be carried out, and then add water. Mix until completely homogeneous, then apply the product.

To improve open-air curing and further reduce shrinkage, **Stabilcem** can be mixed with 5 to 8 l/m<sup>3</sup> of **Mapecure SRA**, curing agent.

### Consumption

- injection slurry: 1.6 kg/dm<sup>3</sup> of cavity to be filled;
- mortar: 350-550 kg/m<sup>3</sup>;
- concrete: 300-400 kg/m<sup>3</sup>.

### Packaging

20 kg bags.



## Stabilcem SCC



**Cementitious binder for manufacturing dimensionally stable self-compacting concrete mixtures to repair concrete structures.**

**Stabilcem SCC** is used to manufacture concretes with different aggregate sizes suitable for repairing, by casting, columns, bridge superstructures, and hydraulic works. Thanks to its properties, very fluid cement mixtures (slump flow: 65-70 cm) which do not segregate when placed by pump or by casting without vibration are obtained. By using **Stabilcem SCC** it is possible to reduce costs of repair work, shorten construction time, remove noise caused by vibration and improve the appearance of the structures. Preparing concrete mixtures with  $D_{max} = 8$  mm, mix **Stabilcem SCC** with graded aggregate between 0 to 8 mm or with **Gravel 0-8** and **Gravel 0-15**. For manufacturing concrete with  $D_{max} = 20$  mm, mix **Stabilcem SCC** with aggregates with a maximum diameter not above 20 mm.

To improve open-air curing and further reduce shrinkage, **Stabilcem SCC** can be mixed with 5 to 8 l/m<sup>3</sup> of **Mapecure SRA**, curing agent.

### Consumption

concrete with  $D_{max} = 8$  mm: 600 kg/m<sup>3</sup>;  
concrete with  $D_{max} = 20$  mm: 500-600 kg/m<sup>3</sup>.

### Packaging

20 kg bags;  
600 kg big bags.



### Gravel 0-8 Gravel 0-15



**Gravel 0-8** and **Gravel 0-15**, graded between 0 and 8 mm and between 0 and 15 mm to be used mixed with **Stabilcem** or **Stabilcem SCC**, cementitious binders to be used in place of cement to manufacture pumpable controlled shrinkage concrete or self-compacting concrete for the repair of damaged concrete structures. Furthermore, **Gravel 0-8** can be used mixed with **Mapecem**, special rapid drying hydraulic binder for making screeds.

#### Consumption

##### Gravel 0-8:

30-100% by weight of pre-packed mortar. If used as an aggregate to manufacture concrete with **Stabilcem** or **Stabilcem SCC**, the consumption (indicatively from 1400 to 2000 kg/m<sup>3</sup>) varies in relation to the dosage of the respective binders.

##### Gravel 0-15:

30-100% by weight of pre-packed mortar. If used as an aggregate to manufacture concrete with **Stabilcem** or **Stabilcem SCC**, the consumption (indicatively from 1400 to 2000 kg/m<sup>3</sup>) varies in relation to the dosage of the respective binders.

#### Packaging

**Gravel 0-8:** 20 kg bags.  
**Gravel 0-15:** 25 kg bags.

### Mapecfloor EP19



**Three-component acid-resistant epoxy mortar for thick wear-resistant applications.**

**Mapecfloor EP19** is used as an acid-resistant, wear-resistant protection of concrete structures, for example bearings for crane and bridge crane runways, beds for sewage treatment machinery, ramps, etc.

**Mapecfloor EP19** is suitable for rebuilding the corners of expansion joints in damaged industrial concrete flooring due to the impact of trucks, forklifts, etc.

Prepare **Mapecfloor EP19** by mixing parts A and B, then while mixing, add part C (the powdered component).

Apply **Mapecfloor EP19** with a flat trowel or helicopter.

Saturate the surface, using a towel, with **Primer MF** or **Mapecfloor I 300 SL**, epoxy resins that must be charged with **Quartz 0.25** sand. A coloured coat can be obtained with **Mapeccoat I24**, epoxy resin, that can be applied with a roller.

#### Consumption

- **Primer MF** (applied with a trowel or roller): 0.200-0.300 kg/m<sup>2</sup>;
- **Mapecfloor EP19** (applied with a trowel or helicopter): 20 kg/m<sup>2</sup> per 1 cm of thickness;
- **Primer MF** or **Mapecfloor I 300 SL**: 0.300-0.400 kg/m<sup>2</sup> (when **Mapecfloor EP19** is applied with a helicopter);
- **Primer MF** or **Mapecfloor I 300 SL**: 0.400-0.600 kg/m<sup>2</sup> (when **Mapecfloor EP19** is applied with a trowel);
- **Mapeccoat I24**: 300 g/m<sup>2</sup>.

#### Packaging

- **Mapecfloor EP19**: 10 kg (A+B+C);
- **Primer MF**: 1 kg (A+B); 6 kg (A+B);
- **Mapeccoat I24**: 5 kg (A+B);
- **Mapecfloor I 300 SL**: 10 kg (A+B).



### Planigrout 300



**Fluid three-component epoxy mortar for the reparation of damaged concrete structures, precision fastening and reinforcement of industrial flooring.**

**Planigrout 300** is used for repairing damaged concrete structures, for example overhead and bridge-crane runways in industries and shipyards. More in general, for evening-out concrete surfaces in areas that are difficult to reach. Thanks to the fact that **Planigrout 300** hardens without shrinking, the product can be used as a mortar for precision fastening.

**Planigrout 300** can also be used for preparing industrial flooring with very high mechanical strength, such as workshops, garages and warehouses subject to intense rubber wheel trolley traffic.

First mix part A with part B, then, after adding part C, remix until a homogeneous lump-free mixture is obtained.

#### Consumption

2 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

30.5 kg units (A+B+C):

- part A: 4 kg
- part B: 1.5 kg
- part C: 25 kg

12.2 kg units (A+B+C):

- part A: 1.6 kg
- part B: 0.6 kg
- part C: 10 kg





# Repair of cracked concrete by injection and casting

## **Eporip**



### **Two-component epoxy based adhesive for cold joints and monolithic sealing of cracks in screeds.**

**Eporip** is used to bond "fresh" concrete to "old" concrete, **Mapecem** screeds or **Ultratop** flooring with a cementitious substrate.

It can also be used, by pouring, to seal cracks in floors and to make rigid waterproof joints.

**Eporip** is supplied as two pre-measured components which must be mixed together until completely homogeneous.

**Eporip** has low viscosity and is easily applied with a brush both horizontally and vertically onto perfectly clean and solid substrates. Concrete should be poured within 3 hours after applying **Eporip** (at temperatures around +20°C).

### **Consumption**

- cold joints: 0.5-2 kg/m<sup>2</sup>;
- sealing of cracks: 1.35 kg/dm<sup>3</sup> of cavity to be filled.

### **Packaging**

10 kg (A+B) and 2 kg (A+B).



Artemio Franchi Municipal stadium - Florence - Italy  
Reparation of the concrete flight of stairs with:  
MAPEFER, EPORIP, MAPEGROUT T40, MAPEFINISH,  
MAPEFLEX PU30, MAPEFLEX PB27

## Eporip Turbo



### Very fast hardening two-component polyester resin.

#### Applications:

- sealing cracks in screeds;
- by adding dry sand, **Eporip Turbo** can be used to manufacture mortars for small reparations.

**Eporip Turbo** hardens in approximately 20 minutes.

#### Consumption

1.7 kg/dm<sup>3</sup> of cavity to be filled.

#### Packaging

508 g metal jars  
Part A: 500 g;  
Part B: 8 g.



## Epojet



### Two-component superfluid epoxy resin for injection.

**Epojet** is used for monolithic repair of structures which have cracked due to overloading, impact, earthquakes etc; it is also used for bonding and structural strengthening by low pressure injection and for sealing cracks in cement screeds.

**Epojet** is a solvent-free epoxy adhesive, consisting of two pre-measured components to be mixed together with an electric stirrer prior to use. After mixing, **Epojet** becomes a low viscosity liquid ideal for injection.

**Epojet** polymerizes without shrinkage and is waterproof after hardening. For monolithic repair of degraded structures, inject **Epojet** into the cracks with a pump. Horizontal cracks in screeds can be sealed simply by pouring **Epojet** directly into them.

#### Consumption

- sealing of cracks:  
1.1 kg/dm<sup>3</sup> of cavity to be filled;
- bonding concrete-steel:  
1.1 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

4 kg (A+B) and 2.5 kg (A+B).



## Epojet LV



### Two-component very low viscosity epoxy resin for injection in micro cracks.

**Epojet LV** is used to attribute the monolithic nature to cracked structures and for bonding and structural strengthening of concrete and masonry elements by low pressure and/or at atmosphere pressure injection. The product can be used for sealing cracks in cementitious screeds.

**Epojet LV** is a solvent-free, low viscosity, two-component epoxy adhesive. After mixing, **Epojet LV** becomes an extremely fluid liquid ideal for injection.

**Epojet LV** polymerises without shrinkage and is waterproof after hardening. For monolithic repair of damaged structures, inject **Epojet LV** into the cracks with a low pressure or at atmosphere pressure pump. Horizontal cracks in screeds can be sealed by pouring **Epojet LV** directly into them.

#### Consumption

- sealing cracks:  
1.1 kg/dm<sup>3</sup> of cavity to be filled;
- bonding concrete-steel:  
1.1 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

4 kg (A+B) and 2.5 kg (A+B).





## Foamjet F



**Fluid ultra rapid setting two-component polyurethane resin to be injected for consolidating and waterproofing structural elements subject to weak water ingress.**

Use **Foamjet F** to consolidate rocks, grounds and waterproofing cracked concrete and masonry structures such as tunnels, shafts, dams, canals, bulkheads, damp flooring or beds.

**Foamjet F** is a two-component halogen-free resin that must be used with special machinery that is able to measure and mix Part A with Part B in a 1:1 ratio by volume. Thanks to its high fluidity, **Foamjet F** can penetrate through cracks of even several hundred microns and seal the cracks even if they are subject to water infiltrations. Once set, **Foamjet F** becomes perfectly watertight and ensures an effective consolidation of the structure.

### Consumption

in the absence of water, approximately 1.1 kg/dm<sup>3</sup> of cavity to be filled;  
in the presence of water, approximately 0.3 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

22.5 kg (A+B).



## Foamjet T



**High viscosity ultra rapid setting two-component polyurethane resin to be injected for consolidating and waterproofing structural elements subject to high pressure water ingress.**

Use **Foamjet T** to waterproof cracked concrete and masonry structures such as tunnels, shafts, dams, canals, bulkheads, flooring or beds subject to strong water ingress. **Foamjet T** is a two-component halogen-free resin that must be used with special machinery that is able to measure and mix Part A with Part B in a 1:1 ratio by volume.

Thanks to its high fluidity, **Foamjet T** can penetrate through fissures of even several hundred microns and seal the cracks even if they are subject to water infiltrations. Once set, **Foamjet T** becomes perfectly watertight and ensures an effective consolidation of the treated structure.

### Consumption

in the absence of water, approximately 1.1 kg/dm<sup>3</sup> of cavity to be filled;  
in the presence of water, approximately 0.3 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

22.6 kg (A+B).







## Stabilcem



### Very fluid expanding cementitious binder for the preparation of injection slurries, mortars and concrete.

Use **Stabilcem** to prepare shrinkage-compensated injection slurries, mortars and concrete.

**Stabilcem** can be used for filling cavities and cracks into rock and brickwork and for filling internal porosity of concrete.

Due to its characteristics, self-levelling concretes obtained with **Stabilcem** can be pumped under high mechanical pressure without any risk of segregation.

Mix **Stabilcem** with appropriately graded aggregate, depending on the type of work to be carried out, and then add water. Mix until completely homogeneous, then apply the product.

To improve open-air curing and further reduce shrinkage, **Stabilcem** can be mixed with 5 to 8 l/m<sup>3</sup> of **Mapecure SRA**, curing agent.

### Consumption

- injection slurry:  
1.6 kg/dm<sup>3</sup> of cavity to be filled;
- mortar: 350-550 kg/m<sup>3</sup>;
- concrete: 300-400 kg/m<sup>3</sup>.

### Packaging

20 kg bags.



Settefonti viaduct - A1 motorway, the Florence - Bologna stretch - Italy  
Reparation of the viaduct pillars with:  
MAPEFER, STABILCEM, MAPEGROUT T60,  
ANTIFREEZE S, MAPECURE E



# Smoothing concrete surfaces and renders



## Planitop 100



**Light grey, rapid setting, fine mortar for repairing and smoothing concrete and renders.**

**Planitop 100** is used for localized repairs of precast concrete elements damaged by movement and for adjusting superficial defects such as honeycombs and macro-porosity.

Furthermore, **Planitop 100** can be used for levelling renders and smoothing concrete repaired with products from the **Mapegrout** range.

By mixing **Planitop 100** with water, a mortar is obtained that is easily applied by trowel to clean sound surfaces that have previously been saturated with water, up to a maximum thickness of 3 mm per coat. For thicknesses greater than 5 mm the addition of 30% of sand graded between 1 and 2 mm is recommended.

Application: trowel or float.

**Planitop 100** meets the requirements of EN 1504-2 standards, in compliance with MC principle, for concrete protection.

### Consumption

- 1.3 kg/m<sup>2</sup> per mm of thickness if used neat;
- 1.0 kg/m<sup>2</sup> per mm of thickness if used with 30% of 2 mm graded sand.

### Packaging

25 kg bags.



## Planitop 200



**One-component cementitious mortar with high bonding strength for interior and exterior smoothing of rough surfaces and for finishing walls (fine texture effect).**

**Planitop 200** is used to smooth slightly rough outdoor and indoor walls that will be covered with ceramics or paint.

**Planitop 200** is especially suitable to smooth defects in old coloured cementitious renders, lime and cement based painted renders, wooden substrates, gypsum board (after applying **Primer G**), concrete and old mosaic coverings as long as well anchored.

By mixing **Planitop 200** with 20-23% clean water (5-5.75 l for a 25 kg bag) a textured mortar is obtained that is easily applied by trowel. Thickness up to 3 mm per layer can be obtained. Once applied, the product can be finished with a moist sponge float and then decorated and protected with **Silexcolor Paint**, **Silexcolor Tonachino**, **Silancolor Paint** or **Elastocolor Paint**.

**Planitop 200** meets the requirements of EN 1504-2 standards, in compliance with MC principle, for concrete protection.

### Consumption

1.3 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags.



## Monofinish



### One-component normal setting cementitious mortar for smoothing concrete and cementitious renders.

**Monofinish** is recommended for smoothing surface imperfections of concrete pours and smoothing the surface of concrete repaired with mortars from the **MapegROUT** product line.

**Monofinish** mixed with clean water forms a plastic, easily trowellable mortar to be applied on substrates that are solid, compact, and free of oils, form release agents or other deleterious substances. Any old paint must be completely removed. Before applying **Monofinish** the surface must be completely saturated with water. Pour a 22 kg bag of **Monofinish** into 4-4.2 litres of clean water.

**Monofinish** can be used for thicknesses up to 2 to 3 mm per coat. **Monofinish** can be finished with a damp sponge float and then painted with **Elastocolor Paint** or other paints for outdoor use.

**Monofinish** meets the minimum requirements of EN 1504-3 standards for R2-class non structural mortars and the requirements of EN 1504-2 standards, in compliance with MC principle, for concrete protection.

#### Consumption

1.4 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

22 kg bags.



## Mapefinish



### Two-component cementitious mortar for finishing concrete surfaces.

**Mapefinish** is used to level small imperfections of poured concrete and to smooth surfaces after repairs.

**Mapefinish** is suitable for surfaces permanently in contact with drinking water, as long as after its application, it is washed repeatedly with water at +40°C.

**Mapefinish** is supplied as two pre-measured components which must be mixed without adding water or other ingredients.

The mortar is applied with a trowel to a clean, sound surface which must be thoroughly soaked with water beforehand. **Mapefinish** can be applied up to 2-3 mm thick in a single coat.

Finish with a flat trowel or a plastering float a few minutes after application.

**Mapefinish** meets the minimum requirements of EN 1504-3 standards for R2-class non structural mortars and the requirements of EN 1504-2 standards, in compliance with MC principle, for concrete protection.

#### Consumption

2 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

24 kg bags;  
6 kg drums.



## Mapelastic



### Two-component flexible cementitious mortar for waterproof protection of concrete, swimming-pools and balconies.

Use **Mapelastic** to provide a highly flexible, protective and waterproof coating to concrete structures particularly subject to cracking.

**Mapelastic** seals hairline cracks already present in substrates.

**Mapelastic** is supplied in two pre-measured components which must be mixed together without adding water or other ingredients. The mortar is applied with a trowel onto perfectly clean and sound surfaces that have been previously dampened with water.

**Mapelastic** can be applied up to 2 mm thick in a single coat. When applying to surfaces particularly stressed or crazed, it is essential to embed a 4 x 4.5 mm square-grid **Fibreglass Mesh**.

To further improve both elongation at failure and crack bridging of **Mapelastic**, we recommend inserting **Mapetex Sel**, macro-holed non-woven polypropylene fabric.

Application: trowel or rendering machine. **Mapelastic** meets the requirements of EN 1504-2 standards, in compliance with PI, MC and IR and principle, for concrete protection.

#### Consumption

– 1.7 kg/m<sup>2</sup> per mm of thickness if applied with a trowel;  
– 2.2 kg/m<sup>2</sup> per mm of thickness if sprayed.

#### Packaging

24 kg bags + 8 kg drums.



Tesco multi-functional centre - Olomuc - Czech Republic  
Reparation and protection of the building façade with:  
MAPEGROUT THIXOTROPIC, EPORIP, PLANITOP 100,  
MAPELASTIC, ELASTOCOLOR PAINT



## Mapelastic Smart



**Two-component, high-flexibility cementitious mortar, applied by brush or by roller, for waterproofing concrete surfaces such as foundations, retaining walls, balconies, terraces, basins and swimming pools, and for protection against the penetration of aggressive agents.**

**Mapelastic Smart** is used to form highly flexible, waterproof and protective dressings on concrete structures, even those subject to cracking.

**Mapelastic Smart** may also be used to cover up micro-cracking in concrete or render.

**Mapelastic Smart** is supplied in the form of two pre-dosed components, which must be mixed together without adding either water or any other ingredient.

Mixing ratio: A : B = 2 : 1.

The mortar is applied by brush, roller or spray-rendering machine on surfaces which must be perfectly clean and solid, and which have been dampened with water beforehand.

With **Mapelastic Smart**, a levelling layer of up to 2 mm thick may be applied in one single coat.

If the product is to be applied on surfaces which are highly stressed or which have micro-cracking, 4 x 4.5 mm **Fibreglass Mesh** must be inserted.

To further improve both elongation at failure and crack bridging of **Mapelastic Smart**, we recommend inserting

**Mapetex Sel**, macro-holed non-woven polypropylene fabric.

**Mapelastic Smart** meets the requirements of EN 1504-2 standards, in compliance with PI, MC and IR principle, for concrete protection.

### Consumption

approximately 1.6 kg/m<sup>2</sup> per mm of thickness, if applied by brush or roller;  
 approximately 2.2 kg/m<sup>2</sup> per mm of thickness, if applied by spray.

### Packaging

20 kg bags + 10 kg cans.



## Planitop 520



**Lime-cement based smooth finishing compound for interior and exterior renders, to be applied "fresh on fresh" up to 3 mm thick.**

**Planitop 520** is used as a smooth finishing of cement-lime mortar or prepacked "fresh" renders for interiors and exteriors on walls and ceilings, before painting or applying thin coloured coatings.

Thanks to its special composition, the finishing obtained by mixing **Planitop 520** with water has a high bonding strength and is easy to apply with a metal trowel even on coarse renders. Furthermore, it can be quickly finished with a sponge float.

**Planitop 520** can be applied up to 3 mm thick with a metal trowel using the "fresh on fresh" method and is available in white and grey.

### Consumption

1.35 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags.



## Planitop 530



**Smooth, lime and cement-based levelling compound for "fresh" or "cured" internal and external render, applied at a thickness of up to 3 mm.**

**Planitop 530** is used to achieve a smooth finish on "fresh" or "cured" lime-mortar or pre-blended internal and external render on walls or ceilings, before painting or application of thin coloured finishes.

Thanks to its special composition, the smoothing compound obtained by mixing **Planitop 530** with water has high bonding strength and is characterised by its excellent free-flowing properties, which makes it easy to apply with a metal trowel, and where required, quick to finish off using a sponge float.

**Planitop 530** may be applied at a thickness of up to 3 mm for each single coat, and is available in either white or grey.

### Consumption

1.25 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags.



## Planitop 540



**Cement-based smooth finishing compound for both interior and exterior fresh or "cured" renders and for concrete substrates; can be applied up to 3 mm thick.**

**Planitop 540** is used for finishing rough renders and concrete elements in interiors and exteriors before painting. This product is also suitable for smooth finishing of fresh or cured renders or slightly rough concrete walls, for levelling *pedralles* soffits and precast concrete elements such as panels, columns and beams.

Thanks to its special composition, the finishing obtained by mixing **Planitop 540** with water, is easily applied using a flat trowel and finished with a sponge float. Once hardened, it has a very high bonding strength.

**Planitop 540** can be applied maximum 3 mm thick per coat and is available in white and grey.

### Consumption

1.4 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags.



## Planitop 560



**White lime-cement based finishing compound for very smooth finishing of both fresh and cured interior and exterior cementitious renders and concrete surfaces; can be applied from 0 to 3 mm thick.**

**Planitop 560** is used for smoothing fresh or cured, interior and exterior cement-lime mortar or prepacked fresh renders before painting or applying floor or ceiling coloured coatings. It can also be used for smoothing renders in rooms where wall paper or light-weight textile coverings will be applied. **Planitop 560** can also be used for smoothing cracks and chips on old concrete walls, as fine finishing of coarse grained levelling and for levelling *predalles* soffits.

Thanks to its special composition and fine texture, the finishing obtained by mixing **Planitop 560** with water has a high bonding strength and is easy to apply with a flat metal trowel.

**Planitop 560** can be applied between 0 and 3 mm thick per coat.

### Consumption

1.1 kg/m<sup>2</sup> per mm of thickness.

### Packaging

20 kg bags.



## Planitop 580



**White lime and gypsum-based levelling compound for smoothing off "dry", cured internal gypsum, anhydrite or lime/cement-based renders.**

**Planitop 580** is used for smoothing off internal traditional or pre-blended "dry", cured renders, or pre-blended or lime-mortar renders, before applying paint or thin layers of mineral or synthetic finishing coats.

**Planitop 580** may also be used to obtain a smooth, finishing layer on coarse-grained render and for levelling off surfaces in gypsum, cellular cement blocks or in sandwich blocks.

The special composition and extremely fine structure, which is obtained by mixing **Planitop 580** with water, gives the finishing layer high bonding properties and makes it very easy to spread with a smooth, metallic trowel, which also helps with the finishing operations.

**Planitop 580** may be applied at a thickness of up to 3 mm for each single coat.

### Consumption

approx. 0.80 kg/m<sup>2</sup> (per mm of thickness).

### Packaging

20 kg bags.





## Planitop HDM



**Two-component, high-ductility mortar with a pozzolanic reaction used for reinforcing masonry structures in conjunction with Mapegrid G 120 or Mapegrid G 220 at a thickness of 6 mm and for smoothing and levelling surfaces in concrete, stone and tuff. Planitop HDM is used in conjunction with Mapegrid G 120 or Mapegrid G 220** (a special mesh made from primed fibreglass) to reinforce masonry structures and to even out surfaces in concrete, stone, brick and tuff. Thanks to its high content of synthetic resin, **Planitop HDM** has high bonding strength and, once hardened, forms a tough, compact, layer which is impermeable to water and harmful gases present in the atmosphere and is resistant to freeze-thaw cycles. **Planitop HDM** is supplied in the form of two pre-dosed components, which must be mixed together without adding either water or any other ingredient. The mortar obtained is applied in a single coat at a thickness of up to 6 mm using a trowel, on surfaces which must be clean, solid and saturated beforehand with water or in case of very absorbent surfaces, primed with **Primer G**. The surface is then smoothed over using a flat trowel or sponge float a few minutes after being applied.

**Planitop HDM** meets the minimum requirements of EN 1504-3 for R2-class non structural mortars and the requirements of EN 1504-2, in compliance with MC principle, for concrete protection.

### Consumption

1.8 kg/m<sup>2</sup> per mm of thickness.

### Packaging

24 kg bags + 6.5 kg tanks.



## Planitop HDM Maxi



**Two-component, high-ductility cementitious mortar with a pozzolanic-reaction binder base, applied at a maximum thickness of 25 mm, for levelling off stone, brick and tuff substrates before laying Mapegrid G 120 or Mapegrid G 220.**

**Planitop HDM Maxi** may be used on its own as a filler mortar or to repair brickwork, stone and tuff ceilings; further advantages are gained if used in conjunction with **Mapegrid G 120 or Mapegrid G 220**, a special, alkali-resistant, primed glass fibre mesh for structural reinforcement applications.

Thanks to its high content of synthetic resin, **Planitop HDM Maxi** has high bonding strength and, what is more, once hardened, forms a tough, compact, layer which is impermeable to water and harmful gases present in the atmosphere and is resistant to freeze-thaw cycles.

**Planitop HDM Maxi** is supplied in kits of two pre-dosed components, which must be mixed together without adding either water or any other ingredient. Once mixed, apply the mortar by trowel on the surface to be repaired and levelled off; the surface must be perfectly clean, solid and saturated beforehand with water or in case of very absorbent surfaces, primed with **Primer G**.

Maximum applicable thickness per layer: 25 mm.

Apply the product using a flat trowel, then smooth over using a sponge float before it starts setting.

**Planitop HDM Maxi** meets the minimum requirements of EN 1504-3 for R2-class non structural mortars.

### Consumption

1.85 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags + 6.75 kg tanks.



## Adesilex FIS13



**Water dispersion adhesive for thermal insulation systems.**

**Adesilex FIS13** is an adhesive, based on synthetic resins in water dispersion modified with selected aggregate and special additives. Mixed with cement, it forms a compact mortar with excellent bonding strength on both normal renders and on the foam panels used for thermal insulation systems.

**Adesilex FIS13** can be used for bonding polyurethane or polystyrene foam insulation panels on walls of external façades and for levelling surfaces of insulation systems.

Mix the **Adesilex FIS13** with cement in the ratio of 1 : 0.7 to 0.8, stirring thoroughly to prevent the formation of lumps, until a thick paste is obtained.

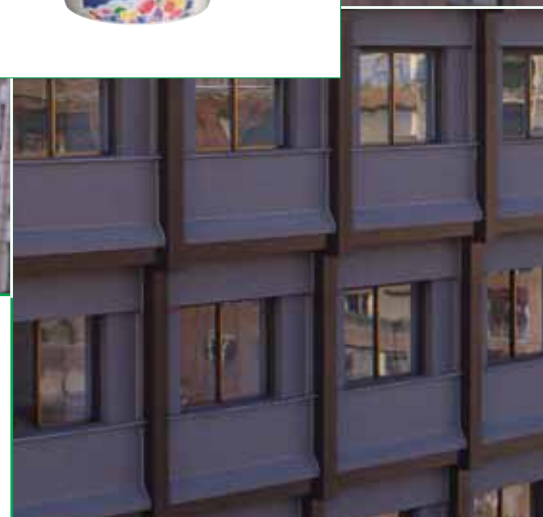
This mix will hold the polystyrene foam panels as soon as they are positioned.

### Consumption

- bonding insulation panels: 1.8-2.4 kg/m<sup>2</sup>;
- total bonding of insulation panels with notched trowel n° 10: 2.7-3.2 kg/m<sup>2</sup>;
- smoothing compound: 1.0-1.2 kg/m<sup>2</sup>.

### Packaging

25 kg and 15 kg drums.



## Elastocolor Rasante



**One-component fibre-reinforced elastomeric filling undercoat that can be applied on renders and very fine fissured textured coatings as long as they are coherent and primed.**

**Elastocolor Rasante** may be applied as it is with a trowel or diluted 5 to 10% with water and applied with a brush, fur roller, or cell-like sponge.

After drying **Elastocolor Rasante** forms a flexible resistant layer that follows the expansion of the substrates.

**Elastocolor Rasante** can be an undercoat setting for reinforcement nets when there are many and pronounced cracks.

**Elastocolor Rasante** can be used as an intermediate coat after having applied **Mapelastic** before finishing with **Elastocolor Paint**.

**Elastocolor Rasante** can be admixed with 0.1 to 0.3 mm washed sand up to 30% by weight to increase the filling when the substrate is particularly uneven.

**Consumption**  
400-700 g/m<sup>2</sup>.

**Packaging**  
20 kg drums.



## Elastocolor Rasante SF



**Trowelable ready-to-use, one-component, fibre reinforced elastomeric undercoat with high filling properties and admixed with fine sand.**

Trowelable intermediate filling undercoat to be used as it is during the **Elastocolor** cycle. **Elastocolor Rasante SF** is especially suitable to be used to install a reinforcing mesh, such as **Elastocolor Net**, and improves the smoothness of the substrate and flexibility of **Elastocolor Paint** finishing.

**Elastocolor Rasante SF** is an elastomeric intermediate undercoat with high filling properties and leaves a rustic finish. It levels uneven parts of the substrate before painting with elastomeric **Elastocolor Paint**.

**Elastocolor Rasante SF** can also be used as a flexible filling finish such as a quartz based paint if applied neat or diluted 5 to 10% water with a trowel, cell-like sponge roller or short-hair roller.

The product is ready-to-use and is applied with a metal trowel. The product may also be applied with a brush or roller.

To obtain different textured "orange peel" effects, **Elastocolor Rasante SF** should be applied with a cell-like sponge roller either neat or diluted 5 to 10% with water, depending on the desired effect. If more coats are needed, wait at least 24 hours between coats.

### Consumption

- trowel: 700 to 800 g/m<sup>2</sup> per coat;
- roller or brush: 300 to 500 g/m<sup>2</sup> per coat;
- spray: 0.8-1 kg/m<sup>2</sup> per coat.

The consumption is merely indicative, and depends on the roughness of the surface and type of application.

**Packaging**  
20 kg drums.



## Elastocolor Net



**Alkali-resistant fibreglass mesh for reinforcing Elastocolor Rasante and Elastocolor Rasante SF.**

Reinforcement for:

- **Elastocolor Rasante** and **Elastocolor Rasante SF** applied on interior and exterior micro-cracked cementitious structures;
- **Elastocolor Rasante** and **Elastocolor Rasante SF** applied next to cracks less than 1 mm.

Apply a 2-3 mm coat of **Elastocolor Rasante** or **Elastocolor Rasante SF** on the surface with a notched trowel and lay **Elastocolor Net** over the surface. Use a flat metal float to evenly spread out the product and to completely cover **Elastocolor Net**. After 24 hours, apply a second coat of **Elastocolor Rasante** or **Elastocolor Rasante SF**.

Fabric next to **Elastocolor Net** must overlap 5 cm around the edges.

### Packaging

**Elastocolor Net** is supplied in 50 m long and 1 m wide rolls.

Reale Mutua Insurance company - Milan - Italy  
Reparation and protection of the building façade with:  
MAPEFER, MAPEGROUT BM, MALECH, ELASTOCOLOR RASANTE



# Structural bonding with epoxy resins

## Adesilex PG1



### Thixotropic epoxy adhesive for structural bonding.

**Adesilex PG1** is a two-component epoxy resin based product with special hardeners, selected fine aggregates and special additives.

**Adesilex PG1** hardens in a few hours by chemical reaction alone, without shrinkage, becoming a compound with exceptional adhesion and mechanical strength.

**Adesilex PG1** can be used for strengthening structural elements such as carbon fibre plates, bonding steel plates precast concrete elements and for sealing large cracks.

**Adesilex PG1** can also be used to repair the edges of joints in industrial floors subject to heavy traffic.

Pour component B (white) into component A (grey) and mix with a low speed electric stirrer until completely even, i.e. a uniform grey colour.

### Consumption

1.55 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B) and 2 kg (A+B).



## Adesilex PG1 Rapido



### Two-component, thixotropic, quick-hardening epoxy adhesive for structural bonds.

**Adesilex PG1 Rapido** is a two-component adhesive composed of an epoxy resin base, special catalysts, fine-grained selected aggregates and special admixes. **Adesilex PG1 Rapido** hardens in approximately 1 hour (at +23°C) by chemical reaction and without shrinking, and becomes a composite material with exceptional mechanical strength. **Adesilex PG1 Rapido** may be used to strengthen structures by bonding steel and carbon-laminate sheets, such as Carboplate, and pre-fabricated concrete elements, for sealing large cracks and for fixing injection tubes in place.

**Adesilex PG1 Rapido** may also be used for repairing the edges of joints in industrial floors subject to intense traffic. To prepare the product, pour component B (grey) into component A (black) and mix together with a drill fitted with a low-speed mixing attachment until a homogenous mix is obtained (uniform grey colour).

### Consumption

1.55 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B).



## Adesilex PG2



**Thixotropic epoxy adhesive with extended workability.**

**Adesilex PG2** is a two-component epoxy resin based product with special hardeners, selected fine aggregates and special additives.

**Adesilex PG2** is recommended for structural strengthening including bonding steel plates to concrete, rigid structural bonding of precast concrete elements and sealing large cracks.

The product's extended workability makes it especially recommended for applications at temperatures above +20°C.

Pour component B into component A and mix with a low speed electric stirrer until completely even.

### Consumption

1.6 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B).



## Adesilex PG4



**Two-component, thixotropic, epoxy adhesive with modified-rheology for bonding Mapeband, Mapeband TPE, PVC braces, Hypalon and for structural bonding.**

**Adesilex PG4** is a two-component adhesive made up of an epoxy resin base, fine-grained selected aggregates and special admixes.

**Adesilex PG4** is used both as an adhesive for bonding synthetic braces used in waterproofing applications and for repairing, sealing and bonding elements in concrete, reinforced cement, metal and natural stone.

**Adesilex PG4** is characterised by its low viscosity and, as a result, offers good wetting of the substrate. This makes it easy to apply by trowel on horizontal and vertical surfaces and on ceilings without dripping, thanks to it being highly thixotropic.

To prepare the product, pour component B (white) into component A (grey) and mix together with a drill fitted with a low-speed stirrer until a homogenous mix is obtained.

### Consumption

1.55 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B);

30 kg (A+B).



Křimov Bridge - Kroměříž - Czech Republic  
Structural bonding with: ADESILEX PG1



## Eporip



### Two-component epoxy based adhesive for cold joints and monolithic sealing of cracks in screeds.

**Eporip** is used to bond "fresh" concrete to old concrete, **Mapecem** screeds or **Ultratop** flooring with a cementitious substrate.

It can also be used, by pouring, to seal cracks in floors and to make rigid waterproof joints.

**Eporip** is supplied as two pre-measured components which must be mixed together until completely homogeneous.

**Eporip** has low viscosity and is easily applied with a brush both horizontally and vertically onto perfectly clean and solid substrates. Concrete should be poured within 3 hours after applying **Eporip** (at temperatures around +20°C).

#### Consumption

- cold joints: 0.5-2 kg/m<sup>2</sup>;
- sealing of cracks: 1.35 kg/dm<sup>3</sup> of cavity to be filled.

#### Packaging

10 kg (A+B) and 2 kg (A+B).



## Epojet



### Two-component superfluid epoxy resin for injection.

**Epojet** is used for monolithic repair of structures which have cracked due to overloading, impact, earthquakes etc; it is also used for bonding and structural strengthening by low pressure injection and for sealing cracks in cement screeds.

**Epojet** is a solvent-free epoxy adhesive, consisting of two pre-measured components to be mixed together with an electric stirrer prior to use. After mixing, **Epojet** becomes a low viscosity liquid ideal for injection.

**Epojet** polymerizes without shrinkage and is waterproof after hardening.

For monolithic repair of degraded structures, inject **Epojet** into the cracks with a pump. Horizontal cracks in screeds can be sealed simply by pouring **Epojet** directly into them.

#### Consumption

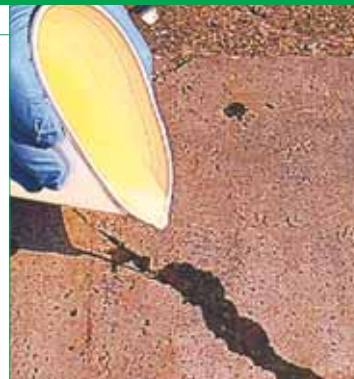
- sealing of cracks:  
1.1 kg/dm<sup>3</sup> of cavity to be filled;
- bonding concrete-steel:  
1.1 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

4 kg (A+B) and 2.5 kg (A+B).



## Epojet LV



### Two-component very low viscosity epoxy resin for injection in micro-cracks.

**Epojet LV** is used to attribute the monolithic nature to cracked structures and for bonding and structural strengthening of concrete and masonry elements by low pressure and/or at atmosphere pressure injection. The product can be used for sealing cracks in cementitious screeds.

**Epojet LV** is a solvent-free, low viscosity, two-component epoxy adhesive. After mixing, **Epojet LV** becomes an extremely fluid liquid ideal for injection.

**Epojet LV** polymerises without shrinkage and is waterproof after hardening. For monolithic repair of damaged structures, inject **Epojet LV** into the cracks with a low pressure or at atmosphere pressure pump. Horizontal cracks in screeds can be sealed by pouring **Epojet LV** directly into them.

#### Consumption

- sealing cracks:  
1.1 kg/dm<sup>3</sup> of cavity to be filled;
- bonding concrete-steel:  
1.1 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

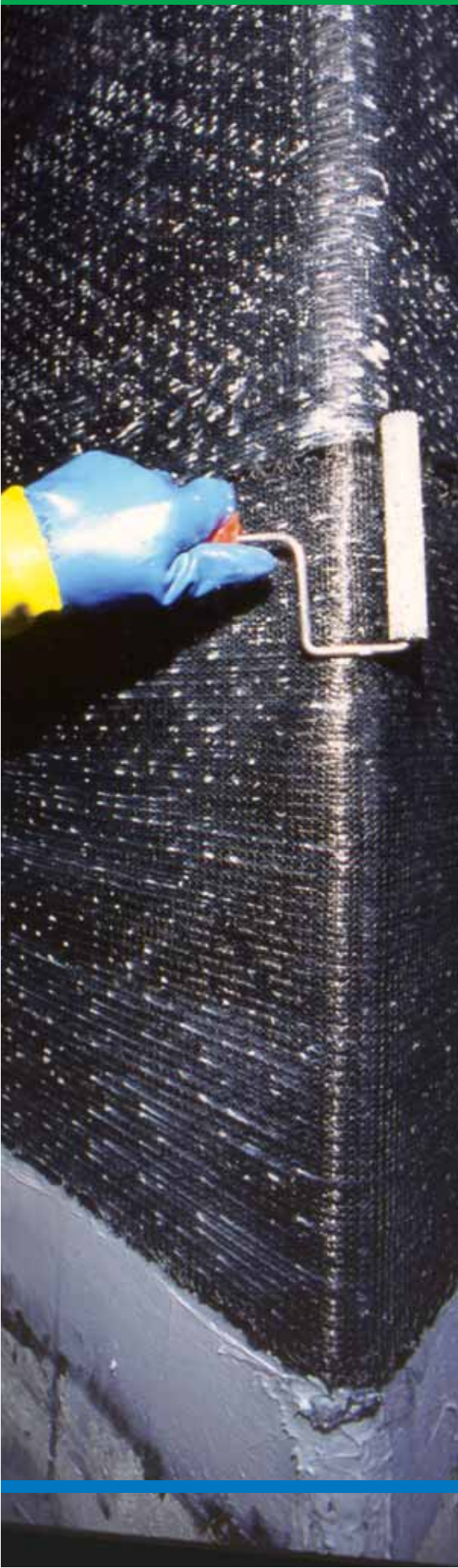
4 kg (A+B) and 2.5 kg (A+B).



# Carbon and glass fibre plates, bars, pipes and fabrics

## STRUCTURAL REINFORCEMENT WITH FRP

47



### Carbotube



**Pultruse tube in carbon fibre impregnated with epoxy resin, used together with Ø 23 mm injectors to carry out "reinforcement tacking".** Carbotube is a range of pultruse tubes in carbon fibre impregnated with epoxy resin, which have a high tensile strength and modulus of elasticity of 170,000 N/mm<sup>2</sup>. It is used to carry out "reinforcement tacking" for repairing, reinforcing and upgrading of structures in stone, brickwork or tuff.

Carbotube is applied using Ø 23 mm injectors as a reinforcement treatment, to consolidate vaulted structures and brickwork, stone and tuff facing walls together with epoxy resin or fluid grout. It is also used for structural consolidation of damaged or cracked elements caused by subsidence or seismic activity. The outside diameter of Carbotube is 10 mm, while the inside diameter is 8mm. The product may be used as is for injection purposes or for structural consolidation operations, or together with the fabrics from the MapeWrap range in order to anchor it on more strongly, especially when flexural or shear strengthening operations are carried out.

**Packaging**  
boxes of 10 2 m-long tubes.

### Injectors Ø 23



**Plastic injectors with a non-return valve, used together with Carbotube to carry out "reinforcement tacking".** After cutting Carbotube to the required length, remove the protective plastic film. Fit the injector onto the Carbotube by applying a light pressure. Insert the Carbotube in the hole previously made in the element to be consolidated, and inject epoxy resin or fluid grout into the hole. Characteristics of the injectors: Outside diameter: 23 mm. Length: 80 mm. Diameter of injection hole: 5 mm.

**Packaging**  
boxes of 100 injectors.



## Epojet



### Two-component superfluid epoxy resin for injection.

**Epojet** is used for monolithic repair of structures which have cracked due to overloading, impact, earthquakes etc; it is also used for bonding and structural strengthening by low pressure injection and for sealing cracks in cement screeds.

**Epojet** is a solvent-free epoxy adhesive, consisting of two pre-measured components to be mixed together with an electric stirrer prior to use. After mixing, **Epojet** becomes a low viscosity liquid ideal for injection.

**Epojet** polymerizes without shrinkage and is waterproof after hardening.

For monolithic repair of degraded structures, inject **Epojet** into the cracks with a pump. Horizontal cracks in screeds can be sealed simply by pouring **Epojet** directly into them.

### Consumption

- sealing of cracks:  
1.1 kg/dm<sup>3</sup> of cavity to be filled;
- bonding concrete-steel:  
1.1 kg/m<sup>2</sup> per mm of thickness.

### Packaging

4 kg (A+B) and 2.5 kg (A+B).



## Maperod C



### Pultruse bars in high-strength carbon fibre, used for strengthening reinforced concrete structural elements and masonry.

**Maperod C** is a range of pultruse rods in carbon fibre, pre-impregnated in epoxy resin, which have a high tensile strength and modulus of elasticity of 155,000 N/mm<sup>2</sup>. After removing the protective plastic film, they are used to carry out structural repairs and strengthening of elements in reinforced concrete, brickwork, stone or tuff damaged by either physical-mechanical stresses or natural events.

**Maperod C** may be used together with the fabrics from the **MapeWrap** range in order to anchor it on more strongly, especially when flexural or shear strengthening operations are carried out.

### Packaging

boxes of 10 2m-long rods.

## Maperod G



### Pultruse bars in fibreglass, used for strengthening reinforced concrete structural elements and masonry.

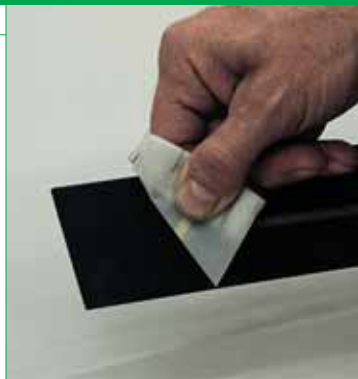
**Maperod G** is a range of pultruse rods in improved-adherence fibreglass impregnated with modified epoxy ethyl vinyl, which have a modulus of elasticity of 40,800 N/mm<sup>2</sup>. They are used to carry out structural repairs and strengthening of elements in reinforced concrete, brickwork, stone or tuff damaged by either physical-mechanical stresses or natural events.

**Maperod G** may be used together with the fabrics from the **MapeWrap** range in order to anchor it on more strongly, especially when flexural or shear strengthening operations are carried out.

### Packaging

boxes of 10 3 m-long rods.

## Carboplate



**Pultruded carbon fibre plates pre-impregnated in epoxy resin, protected by a double film of plastic.** Carboplate is a range of pultruded carbon fibre plates, pre-impregnated in epoxy resin, with high resistance and flexibility, for plating prestressed reinforced concrete conglomerate and steel structures.

Carboplate can replace conventional steel sheets (*béton plaqué*) that are used for plating.

Carboplate is used for the repair and static upgrade of beams and under-dimensioned slabs for flexural resistance, for the repair of structures damaged by fire and seismic events, for the reinforcement of viaduct slabs consequent to an increase of static and/or dynamic loads, of industrial and/or commercial structures consequent to loads brought on by equipment and machinery, of carriageable ramps in residential and industrial buildings.

Carboplate is placed using Adesilex PG1, Adesilex PG1 Rapido or Adesilex PG2 structural adhesives provided that the substrate is impregnated by using MapeWrap Primer 1 beforehand.

### Packaging

Carton boxes each containing one 25 m roll.

Carboplate is available in 3 modulus of elasticity (170,000, 200,000 and 250,000 N/mm<sup>2</sup>), each having 3 widths (50, 100 and 150 mm):

- Carboplate E 170/50/1.4 (25 m x 50 mm x 1.4 mm rolls).
- Carboplate E 170/100/1.4 (25 m x 100 mm x 1.4 mm rolls).
- Carboplate E 170/150/1.4 (25 m x 150 mm x 1.4 mm rolls).
- Carboplate E 200/50/1.4 (25 m x 50 mm x 1.4 mm rolls).
- Carboplate E 200/100/1.4 (25 m x 100 mm x 1.4 mm rolls).
- Carboplate E 200/150/1.4 (25 m x 150 mm x 1.4 mm rolls).
- Carboplate E 250/50/1.4 (25 m x 50 mm x 1.4 mm rolls).
- Carboplate E 250/100/1.4 (25 m x 100 mm x 1.4 mm rolls).
- Carboplate E 250/150/1.4 (25 m x 150 mm x 1.4 mm rolls).



## Adesilex PG1



### Thixotropic epoxy adhesive for structural bonding.

Adesilex PG1 is a two-component epoxy resin based product with special hardeners, selected fine aggregates and special additives.

Adesilex PG1 hardens in a few hours by chemical reaction alone, without shrinkage, becoming a compound with exceptional adhesion and mechanical strength.

Adesilex PG1 can be used for strengthening structural elements such as carbon fibre plates, bonding steel plates precast concrete elements and for sealing large cracks.

Adesilex PG1 can also be used to repair the edges of joints in industrial floors subject to heavy traffic.

Pour component B (white) into component A (grey) and mix with a low speed electric stirrer until completely even, i.e. a uniform grey colour.

### Consumption

1.55 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B) and 2 kg (A+B).



## Adesilex PG1 Rapido



### Two-component, thixotropic, quick-hardening epoxy adhesive for structural bonds.

Adesilex PG1 Rapido is a two-component adhesive composed of an epoxy resin base, special catalysts, fine-grained selected aggregates and special admixes. Adesilex PG1 Rapido hardens in approximately 1 hour (at +23°C) by chemical reaction and without shrinking, and becomes a composite material with exceptional mechanical strength.

Adesilex PG1 Rapido may be used to strengthen structures by bonding steel and carbon-laminate sheets, such as Carboplate, and pre-fabricated concrete elements, for sealing large cracks and for fixing injection tubes in place.

Adesilex PG1 Rapido may also be used for repairing the edges of joints in industrial floors subject to intense traffic. To prepare the product, pour component B (white) into component A (grey) and mix together with a drill fitted with a low-speed mixing attachment until a homogenous mix is obtained (uniform grey colour).

### Consumption

1.55 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B).





## Adesilex PG2



### Thixotropic epoxy adhesive with extended workability.

**Adesilex PG2** is a two-component epoxy resin based product with special hardeners, selected fine aggregate and special additives.

**Adesilex PG2** is used for structural strengthening such as bonding **Carboplate** carbon fibre plates, steel plates, precast concrete elements and sealing cracks larger than 1 mm.

The product's extended workability makes it especially recommended for applications at temperatures above +20°C.

Pour Part B into Part A and mix with a low speed electric stirrer until completely even.

### Consumption

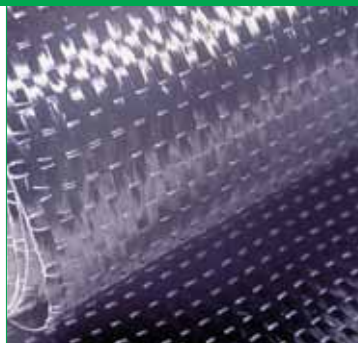
1.6 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B).



## MapeWrap C UNI-AX and MapeWrap C UNI-AX HM



### High strength uni-directional continuous carbon fibre fabric with high and very high modulus of elasticity.

**MapeWrap C UNI-AX** and **MapeWrap C UNI-AX HM** are uni-directional continuous carbon fibre fabrics characterised by high (230,000 N/mm<sup>2</sup>) and very high (390,000 N/mm<sup>2</sup>) modulus of elasticity and high tensile strength. The fabrics are suitable for repairing reinforced concrete structures damaged by physical-mechanical action, for confinement of axial loaded concrete elements or concrete elements subjected to compressive and bending stress and for seismic strengthening in earthquake areas. They can be placed using two different methods: the wet system and the dry system using a specific and complete range of epoxy resins made up of **MapeWrap Primer 1** to prime the substrate, **MapeWrap 11** or **MapeWrap 12** for smoothing, **MapeWrap 21** (wet system) and **MapeWrap 31** (dry system) for the impregnation of the fabric.

### Packaging

boxes containing one 50 m long roll.

**MapeWrap C UNI-AX** and **MapeWrap C UNI-AX HM** are available in two basic weights (300 and 600 g/m<sup>2</sup>) and each type with different widths (10, 20 and 40 cm):

- **MapeWrap C UNI-AX** 300/10: 50 m x 10 cm rolls (300 g/m<sup>2</sup>);
- **MapeWrap C UNI-AX** 300/20: 50 m x 20 cm rolls (300 g/m<sup>2</sup>);
- **MapeWrap C UNI-AX** 300/40: 50 m x 40 cm rolls (300 g/m<sup>2</sup>);
- **MapeWrap C UNI-AX** 600/10: 50 m x 10 cm rolls (600 g/m<sup>2</sup>);
- **MapeWrap C UNI-AX** 600/20: 50 m x 20 cm rolls (600 g/m<sup>2</sup>);
- **MapeWrap C UNI-AX** 600/40: 50 m x 40 cm rolls (600 g/m<sup>2</sup>).



## MapeWrap C BI-AX



### Balanced high strength bidirectional carbon fibre fabric.

**MapeWrap C BI-AX** is a bidirectional carbon fibre fabric characterised by a high modulus of elasticity and very high tensile strength.

**MapeWrap C BI-AX** is suitable for repairing concrete structures and to improve flexural and shear strength of reinforced concrete structures damaged by physical-mechanical action, for confinement of axial loaded concrete elements or concrete elements subjected to compressive and bending stress and for seismic strengthening in earthquake areas.

**MapeWrap C BI-AX** can be placed using two different methods: the wet system and the dry system using a specific and complete range of epoxy resins composed of **MapeWrap Primer 1** to prime the substrate, **MapeWrap 11** or **MapeWrap 12** for smoothing, **MapeWrap 21** (wet system) and **MapeWrap 31** (dry system) for the impregnation of the fabric.

### Packaging

boxes containing one 50 m long roll.

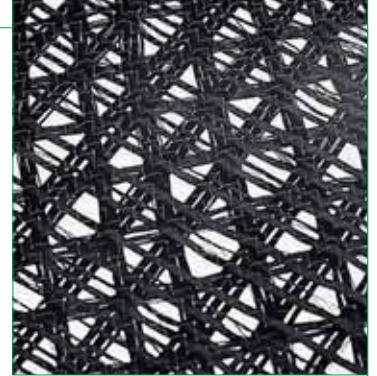
The fabric is available in two basic weights and each type with different widths:

- **MapeWrap C BI-AX** 230/20: 50 m x 20 cm rolls (230 g/m<sup>2</sup>);
- **MapeWrap C BI-AX** 230/40: 50 m x 40 cm rolls (230 g/m<sup>2</sup>);
- **MapeWrap C BI-AX** 360/20: 50 m x 20 cm rolls (360 g/m<sup>2</sup>);
- **MapeWrap C BI-AX** 360/40: 50 m x 40 cm rolls (360 g/m<sup>2</sup>).





## MapeWrap C QUADRI-AX



**Balanced high strength quadri-directional carbon fibre fabric.**  
**MapeWrap C QUADRI-AX** is a quadri-directional carbon fibre fabric characterised by a high modulus of elasticity (comparable to steel) and very high tensile strength. **MapeWrap C QUADRI-AX** is suitable for the repair and static upgrade of damaged reinforced concrete structures where the distribution of the isostatic lines of concrete elements tension are unknown, for confinement of axial loaded concrete elements or concrete elements subjected to compressive and bending stress and for seismic strengthening in earthquake areas. **MapeWrap C QUADRI-AX** can be placed using two different methods: the wet system and the dry system using a specific and complete range of epoxy resins composed of **MapeWrap Primer 1** to prime the substrate, **MapeWrap 11** or **MapeWrap 12** for smoothing, **MapeWrap 21** (wet system) and **MapeWrap 31** (dry system) for the impregnation of the fabric.

**Packaging**  
 boxes containing one 50 m long roll. The fabric is available in two basic weights and each type with different widths:

- **MapeWrap C QUADRI-AX 380/30:**  
 50 m x 30 cm rolls (380 g/m<sup>2</sup>);
- **MapeWrap C QUADRI-AX 380/48:**  
 50 m x 48.5 cm rolls (380 g/m<sup>2</sup>);
- **MapeWrap C QUADRI-AX 760/30:**  
 50 m x 30 cm rolls (760 g/m<sup>2</sup>);
- **MapeWrap C QUADRI-AX 760/48:**  
 50 m x 48.5 cm rolls (760 g/m<sup>2</sup>).



Fenilone railway underpass - Verona - Italy  
 Structural repair and consolidation with:  
 ADESILEX PG1, CARBOPLATE, MAPEWRAP 11,  
 MAPEWRAP 12, MAPEWRAP C UNI-AX



## MapeWrap C FIOCCO



### Carbon fibre cord for impregnation with MapeWrap 21 (two-component super-fluid epoxy resin).

**MapeWrap C Fiocco** is a complete range of cord in unidirectional carbon fibre with a high modulus of elasticity. It is used for creating anchorage points for repairs, reinforcement and static upgrading of structures in reinforced cement, masonry and tuff using **MapeWrap C** fabrics and **Carbotube**.

**MapeWrap C Fiocco** is set in place after it has been impregnated with

**MapeWrap 21** two component, super-fluid, solvent-free epoxy resin, a product specially developed for impregnating **MapeWrap** fabrics on site.

After pulling out the cord through the hole on the top of the package, cut off at the length required with a pair of scissors. Peel back the mesh on the part of **MapeWrap C Fiocco** which does not need to be impregnated with resin and dip the remaining part in **MapeWrap 21**.

After impregnation, while wearing a pair of impermeable rubber gloves, apply a light pressure with your fingers on the part of the cord which has been dipped in order to remove the excess resin. Roll the mesh back into its original position and then sprinkle fine sand on the part of **MapeWrap C Fiocco** which has been dipped in the resin. An alternative method consists in rolling the said cord dipped in resin in a bed of sand. Either one of the above procedures may be used, and they are carried out to obtain a surface which offers a better grip. When the resin has set, remove the mesh from the part of the cord which is not impregnated with resin so that it is easier to open out the carbon fibres.

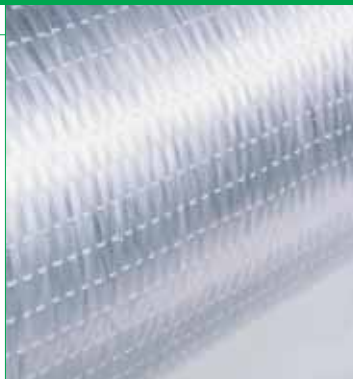
### Packaging

boxes containing one 10 m long roll.

**MapeWrap C Fiocco** is available in various diameters (6, 8, 10 and 12 mm):

- **MapeWrap C Fiocco/6:**  
10 m x Ø 6 mm rolls
- **MapeWrap C Fiocco/8:**  
10 m x Ø 8 mm rolls
- **MapeWrap C Fiocco/10:**  
10 m x Ø 10 mm rolls
- **MapeWrap C Fiocco/12:**  
10 m x Ø 12 mm rolls

## MapeWrap G UNI-AX



### Uni-directional fibre glass fabric.

**MapeWrap G UNI-AX** is a uni-directional fibre glass fabric suitable for repairing concrete and masonry elements damaged by physical mechanical action, for the confinement of axial loaded concrete elements or concrete elements subjected to compressive and bending stress and for seismic strengthening in earthquake-risk areas.

**MapeWrap G UNI-AX** can be placed using two different methods: the wet system and the dry system using a specific and complete range of epoxy resins made up of **MapeWrap Primer 1** to prime the substrate, **MapeWrap 11** or **MapeWrap 12** for smoothing,

**MapeWrap 21** (wet system) and **MapeWrap 31** (dry system) for the impregnation of the fabric.

### Packaging

boxes containing one 50 m long roll.

The fabric is available in 2 basic weights and with different widths:

- **MapeWrap G UNI-AX 300/30**  
(300 g/m<sup>2</sup> - 50 m x 30 cm rolls);
- **MapeWrap G UNI-AX 300/60**  
(300 g/m<sup>2</sup> - 50 m x 60 cm rolls).
- **MapeWrap G UNI-AX 900/30**  
(900 g/m<sup>2</sup> - 50 m x 30 cm rolls);
- **MapeWrap G UNI-AX 900/60**  
(900 g/m<sup>2</sup> - 50 m x 60 cm rolls).



## MapeWrap G QUADRI-AX



### Balanced quadri-directional fibre glass fabric.

**MapeWrap G QUADRI-AX** is a quadri-directional fibre glass fabric suitable for repairing masonry and reinforced concrete elements damaged by physical mechanical action, for the confinement of axial loaded concrete elements or concrete elements subjected to compressive and bending stress and for seismic strengthening of vaulted structures without increasing the seismic mass (without the risk of percolation of liquid towards the intrados surface) in earthquake-risk areas.

**MapeWrap G QUADRI-AX** can be placed using two different methods: the wet system and the dry system using a specific and complete range of epoxy resins made up of **MapeWrap Primer 1** to prime the substrate, **MapeWrap 11** or **MapeWrap 12** for smoothing, **MapeWrap 21** (wet system) and **MapeWrap 31** (dry system) for the impregnation of the fabric.

### Packaging

boxes containing one 50 m long roll. The fabric is available in a single basic weight and with different widths:

- **MapeWrap G QUADRI-AX 1140/30** (1140 g/m<sup>2</sup> - 50 m x 30 cm rolls);
- **MapeWrap G QUADRI-AX 1140/48** (1140 g/m<sup>2</sup> - 50 m x 48.5 cm rolls).



## MapeWrap G FIOCCO



### Fibreglass cord for impregnation with MapeWrap 21 (two component, super-fluid epoxy resin).

**MapeWrap G Fiocco** is a complete range of cord in unidirectional fibreglass. It is used for creating anchorage points for repairs, reinforcement and static upgrading of structures in reinforced cement, masonry and tuff using **MapeWrap G** fabrics and **Carboplate**.

**MapeWrap G Fiocco** is set in place after it has been impregnated with **MapeWrap 21** two component, super-fluid, solvent-free epoxy resin, a product specially developed for impregnating **MapeWrap** fabrics on site.

After pulling out the **MapeWrap G Fiocco** through the hole on the top of the package, cut off at the length required with a pair of scissors. Peel back the mesh on the part of **MapeWrap G Fiocco** which does not need to be impregnated with resin and dip the remaining part in **MapeWrap 21**. After impregnation, while wearing a pair of impermeable rubber gloves, apply a light pressure with your fingers on the part of the cord which has been dipped in order to remove the excess resin. Roll the mesh back into its original position and then sprinkle fine sand on the part of **MapeWrap G Fiocco** which has been dipped in the resin. An alternative method consists in rolling the said cord dipped in resin in a bed of sand. Either one of the above procedures may be used, and they are carried out to obtain a surface which offers a better grip. When the resin has set, remove the mesh from the part of the cord which is not impregnated with resin so that it is easier to spread out the glass fibres.

### Packaging

boxes containing one 10 m long roll.

**MapeWrap G Fiocco** is available in various diameters (6, 8, 10 and 12 mm):

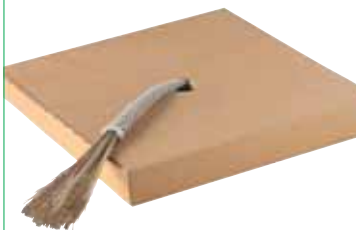
- **MapeWrap G Fiocco/6:**  
10 m x Ø 6 mm rolls;
- **MapeWrap G Fiocco/8:**  
10 m x Ø 8 mm rolls;
- **MapeWrap G Fiocco/10:**  
10 m x Ø 10 mm rolls;
- **MapeWrap G Fiocco/12:**  
10 m x Ø 12 mm rolls.

Marazzi Ceramics tower - Sassuolo - Italy  
Structural repair, protection and consolidation with:  
MAPEFER, MAPEGROUT BM, MAPEGROUT FMR,  
ADESILEX PG1, CARBOPATE, MAPEWRAP PRIMER 1, MAPEWRAP 11,  
MAPEWRAP 31, MAPEWRAP C UNI-AX, MAPEWRAP C QUADRI-AX,  
PLANITOP 200, ELASTOCOLOR PRIMER, ELASTOCOLOR PAINT



**New**

## MapeWrap S FIOCCO



### High-strength, steel fibre cord for structural strengthening.

**MapeWrap S FIOCCO** is a special "cord" made using steel filaments, characterised by its extremely high mechanical strength. The product is suitable for repairing reinforced concrete elements damaged by physical-mechanical stresses, for shear and flexural strengthening of concrete elements and masonry and for seismic upgrading of structures at risk, and is used in conjunction with MapeWrap fabrics from the MAPEI FRP SYSTEM range of products. **MapeWrap S FIOCCO** is placed in position using **Mapewrap 11**, **Mapewrap 12** or **Mapewrap 31**. After extracting **MapeWrap S FIOCCO** through the hole in the top of the package, trim to the exact length required with a clean cut using a grinder. Peel back the mesh towards the part of the **MapeWrap S FIOCCO** which is not to be impregnated with resin, and apply **Mapewrap 11**, **Mapewrap 12** or **Mapewrap 31** on the rest of the cord after placing it in contact with the structural element to be strengthened.

### Packaging

Boxes containing a 10 m-long roll. **MapeWrap S FIOCCO** is available in two different diameters (10 and 12 mm):

- **MapeWrap S FIOCCO/10 mm:**  
10 m-long by Ø10 mm rolls;
- **MapeWrap S FIOCCO/12 mm:**  
10 m-long by Ø12 mm rolls.

## MapeWrap Primer 1



### Epoxy primer specific for the MapeWrap system.

**MapeWrap Primer 1** is a two-component super-fluid solvent-free product based on epoxy resins, specific for the preparation of concrete surfaces that need to be repaired or reinforced by bonding with **MapeWrap** fabric and **Carboplate** carbon plates. Pour part B into part A and mix with a drill fitted with a stirrer until completely even. Mixing ratio: 3 parts by weight of Part A and 1 part by weight of Part B.

**MapeWrap Primer 1** should be applied by a brush or roller onto a perfectly clean, dry and mechanically strong concrete surface.

### Consumption

250-300 g/m².

### Packaging

2 kg (A+B).



Ex slaughterhouse - Latina - Italy  
Structural repair and consolidation with:  
MAPEFER, MAPEGROUT THIXOTROPIC, ADESILEX  
PG2, CARBOPATE, MAPEGROUT T40, MAPEGROUT  
FAST-SET, MAPEWRAP PRIMER 1, MAPEWRAP 11,  
MAPEWRAP 12, MAPEWRAP 31, MAPEWRAP C UNI-AX,  
MAPEWRAP C BI-AX, MAPEWRAP C QUADRI-AX

## MapeWrap 11



**Normal setting thixotropic epoxy putty for levelling concrete surfaces.**

**MapeWrap 11** is a two-component product based on epoxy resins, selected fine aggregate and special additives.

**MapeWrap 11** is used to level concrete surfaces or reinforced concrete structures that need to be repaired or reinforced by bonding with **MapeWrap** fabric. Pour part B into part A and mix with a drill fitted with a stirrer until completely smooth. Mixing ratio: 3 parts by weight of part A and 1 part by weight of part B. After preparation, the product remains workable for approximately 40 minutes at +23°C.

**MapeWrap 11** may be applied onto concrete, stone or metal with a flat or notched trowel, after first priming the substrate with **MapeWrap Primer 1**.

### Consumption

1.5-1.6 kg/m<sup>2</sup> per mm of thickness.

### Packaging

2 kg (A+B);  
6 kg (A+B).



## MapeWrap 12



**Slow setting thixotropic epoxy putty for levelling concrete surfaces.**

**MapeWrap 12** is a two-component product based on epoxy resins, selected fine aggregate and special additives.

**MapeWrap 12** is used to level concrete surfaces or reinforced concrete structures that need to be repaired or reinforced by bonding with **MapeWrap** fabric. Thanks to the extended workability time, 60 minutes at +23°C, the use of **MapeWrap 12** is recommended during the summer season or when large surface areas need to be levelled. Pour part B into part A and mix with a drill fitted with a stirrer until completely smooth.

Mixing ratio: 3 parts by weight of part A and 1 part by weight of part B. **MapeWrap 12** may be applied over concrete, stone or metal with a flat or notched trowel, after first priming the substrate with **MapeWrap Primer 1**.

### Consumption

1.5-1.6 kg/m<sup>2</sup> per mm of thickness.

### Packaging

2 kg (A+B);  
6 kg (A+B).



## MapeWrap 21



**Superfluid epoxy resin for impregnation with MapeWrap "wet system".**

**MapeWrap 21** is a two-component superfluid solvent-free product based on epoxy resins, especially formulated for the impregnation, immediately before placing **MapeWrap** fabric.

Pour part B into part A and mix with a drill fitted with a stirrer until the resin is completely even.

Mixing ratio: 4 parts by weight of part A and 1 part by weight of part B. After mixing, the product remains workable for approximately 40 minutes at +23°C.

The impregnation of the **MapeWrap** fabric can be carried out manually by simply dipping the fabric into a basin or with suitable equipment when a lot of reinforcement is needed in the same structure and over large surface areas. The impregnated fabric must be applied over the still fresh **MapeWrap 11** or **MapeWrap 12** making sure it is laid without wrinkles.

### Consumption

from 0.12 to 1.7 kg/m depending on the type of impregnated fabric.

### Packaging

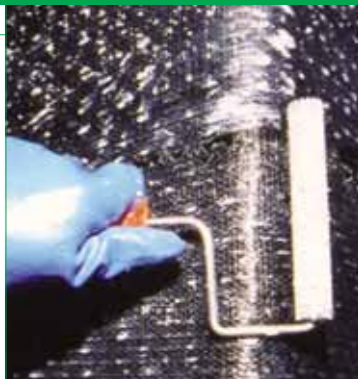
5 kg (A+B);  
2.5 kg (A+B).





New

## MapeWrap 31



**Medium viscosity epoxy resin for impregnation with MapeWrap "dry system".**

**MapeWrap 31** is a two-component solvent-free paste product based on epoxy resins, especially formulated for the impregnation, during application, using the dry system of **MapeWrap** fabric.

Pour part B into part A and mix with a drill fitted with a stirrer until the resin is completely even.

Mixing ratio: 4 parts by weight of part A and 1 part by weight of part B. After mixing, the product remains workable for approximately 40 minutes at +23°C.

**MapeWrap 31** must be applied directly onto the still fresh **MapeWrap 11** or **MapeWrap 12** with a brush or short-haired roller.

The fabric must then be placed over the concrete element that needs to be repaired or reinforced, without leaving any wrinkles.

### Consumption

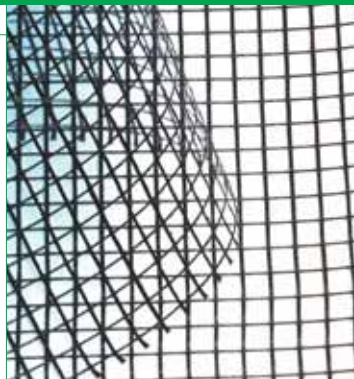
from 0.1 to 1.8 kg/m depending on the type of impregnated fabric.

### Packaging

5 kg (A+B);  
2.5 kg (A+B).



## Mapegrid G 120



**Pre-primed, alkali-resistant (A.R.) glass fibre mesh, for localised reinforced "strengthening" of masonry substrates.**

**Mapegrid G 120** is a special, alkali-resistant mesh made from primed glass fibres, used in conjunction with **Planitop HDM** if the thickness to be rebuilt is up to 6 mm, or with **Planitop HDM Maxi** if the thickness is between 7 and 25 mm due to irregularities in the substrate.

When carrying out strengthening on reinforced concrete structures (for example on frameworks), where the secondary elements (diagonals, bricks, etc.) must be perfectly integral with the main load-bearing elements (e.g. beams and pillars), **Mapegrid G 120** guarantees a good clamping effect, as indicated in the most recent norms and standards regarding seismic applications.

### Packaging

boxes containing a 45 cm-wide by 25 m-long roll.



Church of St. Lucia Bell-tower - Serra S. Quirino - Ancona - Italy  
Consolidation and of the concrete structure using:  
MAPEWRAP PRIMER 1, MAPEWRAP 11, MAPEWRAP 31,  
MAPEWRAP C UNI-AX, MAPEWRAP C QUADRI-AX, ADESILEX PG1,  
EPOJET, MAPE-ANTIQUE MC and ANTIPLUVIOL S

## Mapegrid G 220



**Primed alkali-resistant fibreglass mesh for structural reinforcement of stone, brick and tuff substrates.**

**Mapegrid G 220** is a special primed alkali-resistant mesh made up of fibreglass used in conjunction with **Planitop HDM**, it the thickness is not higher than 6 mm, or with **Planitop HDM Maxi** when, because of differences and unevenness in the substrate, the thickness is between 7 and 25 mm. Thanks to its special 25 x 25 mm woven mesh, **Mapegrid G 220** confers high ductility to the reinforced brickwork and distributes the stresses more uniformly.

### Packaging

supplied in boxes, each one containing one roll:  
45.70 m x 90 cm.

## Planitop HDM



**Two-component, high-ductility mortar with a pozzolanic reaction used for reinforcing masonry structures in conjunction with Mapegrid G 120 or Mapegrid G 220 at a thickness of 6 mm and for smoothing and levelling surfaces in concrete, stone and tuff.**

**Planitop HDM** is used in conjunction with **Mapegrid G 120** or **Mapegrid G 220** (a special mesh made from primed fibreglass) to reinforce masonry structures and to even out surfaces in concrete, stone, brick and tuff. Thanks to its high content of synthetic resin, **Planitop HDM** has high bonding strength and, once hardened, forms a tough, compact, layer which is impermeable to water and harmful gases present in the atmosphere and is resistant to freeze-thaw cycles. **Planitop HDM** is supplied in the form of two pre-dosed components, which must be mixed together without adding either water or any other ingredient. The mortar obtained is applied in a single coat at a thickness of up to 6 mm using a trowel, on surfaces which must be clean, solid and saturated beforehand with water or in case of very absorbent surfaces, primed with **Primer G**. The surface is then smoothed over using a flat trowel or sponge float a few minutes after being applied.

**Planitop HDM** meets the minimum requirements of EN 1504-3 for R2-class non structural mortars and the requirements of EN 1504-2, in compliance with MC principle, for concrete protection.

### Consumption

1.8 kg/m<sup>2</sup> per mm of thickness.

### Packaging

24 kg bags + 6.5 kg tanks.



## Planitop HDM Maxi



**Two-component, high-ductility cementitious mortar with a pozzolanic-reaction binder base, applied at a maximum thickness of 25 mm, for levelling off stone, brick and tuff substrates before laying Mapegrid G 120 or Mapegrid G 220.**

**Planitop HDM Maxi** may be used on its own as a filler mortar or to repair brickwork, stone and tuff ceilings; further advantages are gained if used in conjunction with **Mapegrid G 120** or **Mapegrid G 220**, a special, alkali-resistant, primed glass fibre mesh for structural reinforcement applications.

Thanks to its high content of synthetic resin, **Planitop HDM Maxi** has high bonding strength and, what is more, once hardened, forms a tough, compact, layer which is impermeable to water and harmful gases present in the atmosphere and is resistant to freeze-thaw cycles.

**Planitop HDM Maxi** is supplied in kits of two pre-dosed components, which must be mixed together without adding either water or any other ingredient. Once mixed, apply the mortar by trowel on the surface to be repaired and levelled off; the surface must be perfectly clean, solid and saturated beforehand with water or in case of very absorbent surfaces, primed with **Primer G**.

Maximum applicable thickness per layer: 25 mm.

Apply the product using a flat trowel, then smooth over using a sponge float before it starts setting.

**Planitop HDM Maxi** meets the minimum requirements of EN 1504-3 for R2-class non structural mortars.

### Consumption

1.85 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags + 6.75 kg tanks.





# Waterproofing

## Mapelastic



**Two-component flexible cementitious mortar for waterproof protection of concrete, swimming-pools and balconies.**

Use **Mapelastic** to provide a highly flexible, protective and waterproof coating to concrete structures particularly subject to cracking.

**Mapelastic** seals hairline cracks already present in substrates.

**Mapelastic** is supplied in two pre-measured components which must be mixed together without adding water or other ingredients. The mortar is applied with a trowel onto perfectly clean and sound surfaces that have been previously dampened with water.

**Mapelastic** can be applied up to 2 mm thick in a single coat. When applying to surfaces particularly stressed or crazed, it is essential to embed a 4 x 4.5 mm square-grid **Fibreglass Mesh**.

To further improve both elongation at failure and crack bridging of **Mapelastic**, we recommend inserting **Mapetex Sel**, macro-holed non-woven polypropylene fabric.

Application: trowel or rendering machine. **Mapelastic** meets the requirements of EN 1504-2 standards, in compliance with PI, MC and IR and principle, for concrete protection.

### Consumption

- 1.7 kg/m<sup>2</sup> per mm of thickness if applied with a trowel;
- 2.2 kg/m<sup>2</sup> per mm of thickness if sprayed.

### Packaging

24 kg bags + 8 kg drums.



## Mapelastic Smart



**Two-component, high-flexibility cementitious mortar, applied by brush or by roller, for waterproofing concrete surfaces such as foundations, retaining walls, balconies, terraces, basins and swimming pools, and for protection against the penetration of aggressive agents.**

**Mapelastic Smart** is used to form highly flexible, waterproof and protective dressings on concrete structures, even those subject to cracking.

**Mapelastic Smart** may also be used to cover up micro-cracking in concrete or render.

**Mapelastic Smart** is supplied in the form of two pre-dosed components, which must be mixed together without adding either water or any other ingredient.

Mixing ratio: A : B = 2 : 1.

The mortar is applied by brush, roller or spray-rendering machine on surfaces which must be perfectly clean and solid, and which have been dampened with water beforehand.

With **Mapelastic Smart**, a levelling layer of up to 2 mm thick may be applied in one single coat.

If the product is to be applied on surfaces which are highly stressed or which have micro-cracking, 4 x 4.5 mm **Fibreglass Mesh** must be inserted.

To further improve both elongation at failure and crack bridging of **Mapelastic Smart**, we recommend inserting

**Mapetex Sel**, macro-holed non-woven polypropylene fabric.

**Mapelastic Smart** meets the requirements of EN 1504-2 standards, in compliance with PI, MC and IR principle, for concrete protection.

### Consumption

approximately 1.6 kg/m<sup>2</sup> per mm of thickness, if applied by brush or roller; approximately 2.2 kg/m<sup>2</sup> per mm of thickness, if applied by spray.

### Packaging

20 kg bags + 10 kg cans.





New

## Mapelastic Foundation



**Two-component, flexible cementitious mortar for waterproofing concrete surfaces subject to negative and positive hydraulic pressure.**

Waterproofing concrete and masonry structures subject to negative or positive hydrostatic pressure. Suitable for foundation walls, car-parks, environments below ground level, water channels and swimming pools. **Mapelastic Foundation** is a two-component, cementitious binder-based mortar with fine-grained selected aggregates, special additives and synthetic polymers in water dispersion. When the two components are mixed together, a blend with a plastic consistency is obtained which is easy to apply with a brush or a roller on both horizontal and vertical surfaces at a thickness of at least 2 cm. The properties of this product keep structures below ground level which are protected and waterproofed with **Mapelastic Foundation** perfectly dry. **Mapelastic Foundation** meets the requirements of EN 1504-2 standards, in compliance with PI, MC and IR principle, for concrete protection.

### Consumption

1.65 kg/m<sup>2</sup> per mm of thickness.

### Packaging

22 kg bags + 10 kg cans.



New

## Monolastic



**One component, flexible cementitious mortar for waterproofing balconies, terraces and bathrooms.**

**Monolastic** is used for waterproofing balconies, terraces, bathrooms and showers before installing ceramic tiles or mosaics.

**Monolastic** is a one component, cementitious waterproofing mortar with cementitious binders, selected, fine-grained aggregates and special, flexible acrylic polymers.

Once mixed with water, **Monolastic** forms a paste with excellent workability characteristics, and which is easy to apply with a trowel, roller or brush.

**Monolastic** also bonds extremely well to all surfaces in concrete, masonry, ceramic and marble, if they are solid and clean.

### Consumption

approximately 1.1 kg/m<sup>2</sup> per mm of thickness.

### Packaging

20 kg bags.



THE WATERPROOFER

# Mapelastic®

Flexible  
cementitious  
membrane




**New**

## Monolastic Ultra



**One component, highly-flexible cementitious mortar for waterproofing concrete, balconies, terraces, bathrooms and swimming pools.**

**Monolastic Ultra** is used for waterproofing balconies, terraces, swimming pools, bathrooms and showers before installing ceramic tiles or mosaics.

**Monolastic Ultra** is a one component, cementitious waterproofing mortar with cementitious binders, selected, fine-grained aggregates and special, highly-flexible acrylic polymers.

Once mixed with water, **Monolastic Ultra** forms a paste with excellent workability characteristics which is easy to apply with a trowel, roller or brush, and which may also be applied on vertical surfaces without running and without waste.

**Monolastic Ultra** also bonds extremely well to all surfaces in concrete, masonry, ceramic and marble, if they are solid and clean.

### Consumption

approximately 1.1 kg/m<sup>2</sup> per mm of thickness.

### Packaging

20 kg bags.



## Elastocolor Waterproof



**Flexible, acrylic resin-based paint in water dispersion for protecting structures waterproofed with Mapelastico or Mapelastico Smart and in direct, permanent contact with water.**

**Elastocolor Waterproof** is used for internal painting treatments for swimming pools and all surfaces treated with **Mapelastico** or **Mapelastico Smart**, where the waterproofing layer requires covering with a compatible, flexible and durable protective finish, suitable for direct, permanent contact with water.

**Elastocolor Waterproof** is a paint for external use, composed of an acrylic resin in water dispersion. It is flexible, protective and is perfectly compatible as a coloured finishing layer with **Mapelastico** or **Mapelastico Smart**.

**Elastocolor Waterproof** may be used as the final finishing layer wherever paint which is highly resistant to water is applied, after waterproofing operations using a cementitious-based product.

**Elastocolor Waterproof** is resistant to all climatic conditions and the aggressive attack of smog and sunlight, and provides a long-lasting protective coat for the substrate.

**Elastocolor Waterproof** protects the substrate, and gives it an attractive, smooth and uniform appearance. It is available in a wide range of colours according to the colour chart. Further colours may also be created according to individual samples by using the **ColorMap** automatic colouring system.

### Consumption

0.5-0.7 kg/m<sup>2</sup> (for one base coat and two finishing coats).

### Packaging

20 kg drums.



## Fibreglass Mesh



**Alkali-resistant fibreglass mesh for reinforcing interior and exterior levelling compounds.**

Alkali-resistant **Fibreglass Mesh** with 4x4.5 mm mesh and 1 m height for insertion as reinforcing in the first layer of **Mapegum WPS**, **Aquaflex System**, **Mapelastico**, **Mapelastico Smart**, **Adesilex FIS13**, **Plastisol 1** and bituminous type products to prevent the formation of cracks caused by tensions generated in the substrate.

### Packaging

rolls of 50x1 m.



La Isla Bonita swimming-pool - Pontecagnano (SA) - Italy  
Waterproofing the swimming-pools with MAPELASTIC and MAPEBAND,  
protection and decoration with ELASTOCOLOR WATERPROOF

## Mapetex Sel



**Non-woven, macro-holed polypropylene fabric for reinforcing waterproofing membranes.**

**Mapetex Sel** is a non-woven, macro-holed fabric, made from synthetic polypropylene fibres, which is permeable to water. It is used in conjunction with **Mapelastic** or **Mapelastic Smart** for flexible cementitious mortars, to apply waterproofing layers on balconies, terraces, swimming pools, basins, etc.

**Mapetex Sel** may also be used together with **Mapegum WPS**, fast drying, liquid elastic membrane for interior waterproofing. Thanks to the high mechanical properties of the product, the characteristics of **Mapelastic**, **Mapelastic Smart** and **Mapegum WPS**, such as toughness, punch-resistance, ultimate elongation and crack-bridging, are further improved.

**Packaging**  
25 m x 1 m-wide rolls.

## Mapecoat BS 1



**Two-component, flexible, abrasion-resistant, epoxy-polyurethane resin-based dressing material for protecting and waterproofing concrete structures.**

**Mapecoat BS 1** is a flexible dressing material which is waterproof and resistant to abrasion, applied on any concrete surface to impede the penetration of aggressive elements such as chlorides, oil and hydrocarbons.

It is particularly recommended to form protective dressings around the kerbs of bridges, to avoid the penetration of de-icing salts and to increase strength during freeze/thaw cycles. It may also be used to form waterproof dressings on flat surfaces subject to traffic, pavements on bridges and pedestrian overpasses in concrete, entrance ramps, multi-storey car parks and floors in car parks subject to high mechanical stresses. Thanks to its flexibility, **Mapecoat BS 1** is able to seal cracks of up to 4mm at temperatures as low as -20°C. Once it has set, it bonds perfectly to concrete previously treated with **Primer MF** or **Primer SN**. It also has good resistance against impact and chemical agents.

### Consumption

**Primer MF**  
approx. 0.3-0.4 kg/m<sup>2</sup>.

**Mapecoat BS 1**  
approx. 2.2 kg/m<sup>2</sup> in two coats (2 mm thick).

**Quartz 0.5**  
approx. 6.5 kg/m<sup>2</sup> for sprinkling purposes and for preparing mixes with **Mapecoat BS 1**.

**Packaging**  
10 kg (A+B).





## Idrosilex



### Waterproof for cementitious mortars in powder and liquid form.

Use **Idrosilex** to obtain waterproof renders and substrates.

**Idrosilex** is especially recommended for waterproofing basements, swimming pools, reservoirs, tunnels etc.

**Idrosilex** is a product based on waterproofing additives available both in liquid and powder form.

To use **Idrosilex Powder**, add it to the batch of dry cement and sand and mix with water until a completely uniform mixture is obtained.

To use **Idrosilex Liquid**, dilute it in the mixing water. The mixture obtained with **Idrosilex** is applied like any normal rendering mortar.

### Consumption

- **Idrosilex Liquid**: 3-5 kg per 100 kg of cement;
- **Idrosilex Powder**: 2-4 kg per 100 kg of cement.

### Packaging

- **Idrosilex Liquid**: 25 kg and 6 kg drums;
- **Idrosilex Powder**: 25 x 1-kg boxes.



## Idrosilex Pronto



### Osmotic cementitious mortar suitable for contact with drinking water, for waterproofing masonry and concrete structures.

Use **Idrosilex Pronto** to waterproof foundations, walls, cellars, basements, lift-rooms, swimming pools, canals and reservoirs containing also drinking water. Formulated from cement binders and special waterproofing additives, **Idrosilex Pronto** is prepared by mixing a 25 kg bag with 5.5-6 litres of clean water according to the type of application.

**Idrosilex Pronto** can be applied by brush, trowel or spray.

For application by brush or spray, apply 2-3 coats onto the perfectly cleaned and sound substrate which must be thoroughly soaked with water beforehand. When applying by trowel reduce the mixing water to 5-6 litres per bag.

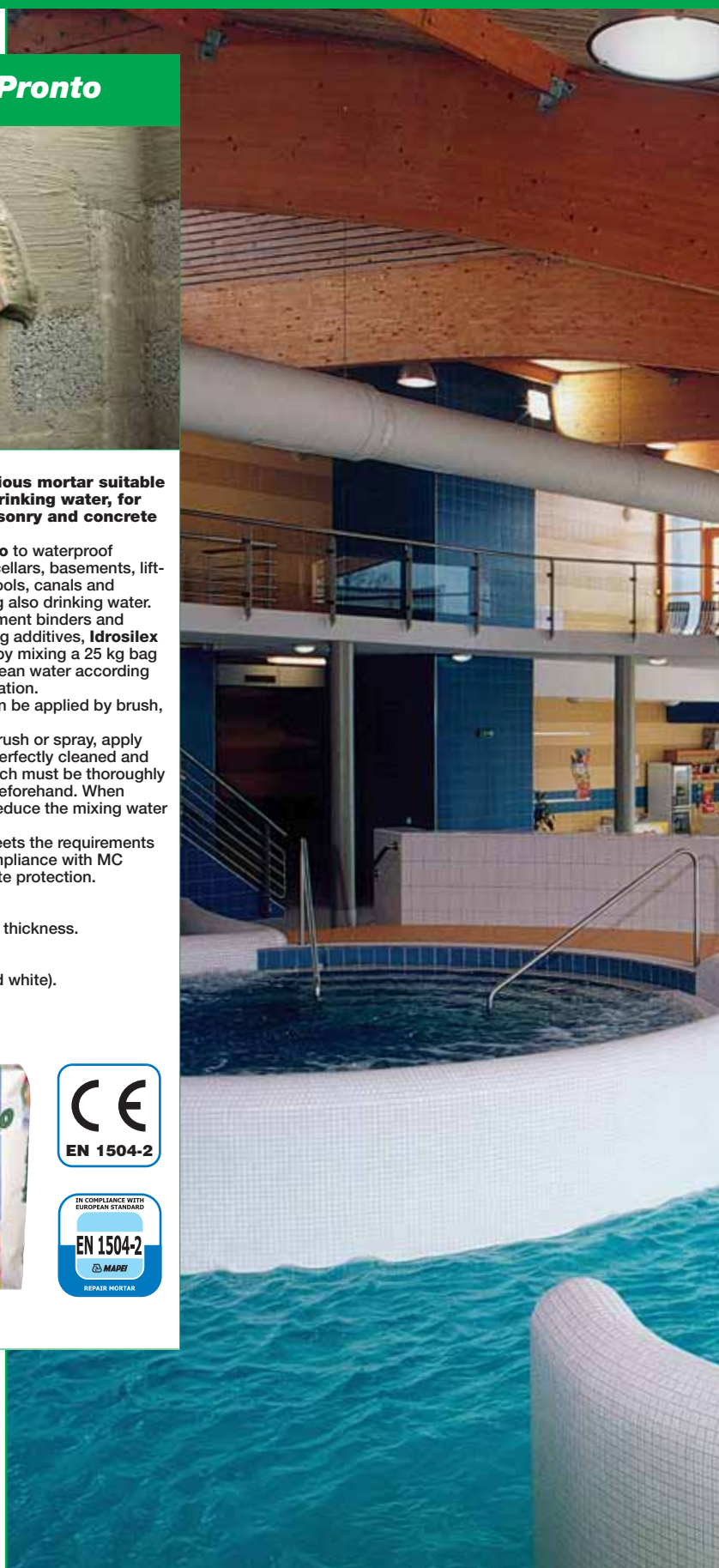
**Idrosilex Pronto** meets the requirements of EN 1504-2, in compliance with MC principle, for concrete protection.

### Consumption

1.6 kg/m<sup>2</sup> per mm of thickness.

### Packaging

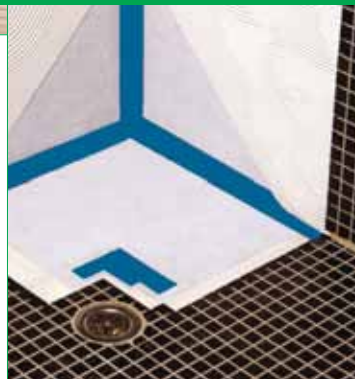
25 kg bags (grey and white).







## Mapegum WPS



### Fast drying, liquid elastic membrane for interior waterproofing.

**Mapegum WPS** is used for waterproofing walls and floors of bathrooms and shower stalls, kitchens and work surfaces, before installing ceramic tiles or natural stone.

**Mapegum WPS** is a grey-coloured one-component paste with a synthetic resin base in water dispersion, totally solvent free, with a thixotropic viscosity that allows easy application on horizontal, inclined and vertical surfaces. After rapid evaporation of the water content, it forms a non-sticky elastic membrane, with excellent resistance to water, tenacity, suitable for light foot traffic, that provides a highly adhesive surface for adhesives used for ceramic tiles, marble and natural stone.

**Mapegum WPS** can be applied by trowel, roller, brush or spray (if necessary dilute with maximum 5% water) on substrates that are sound, clean, dry, free from oils, grease, old paint or other substances that may interfere with bonding.

**Mapegum WPS** must be applied evenly in thin layers (about 1 mm maximum per coat). Wait for the first coat to dry before applying successive crossing coats (from about 1-2 hours depending on the environmental conditions).

Application: smooth trowel, roller or spray in two crossing coats (1 mm each).

### Consumption

1.5 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25, 10 and 5 kg drums.



## Mapegum EPX Mapegum EPX-T



### Two-component epoxy resin for flexible chemical-resistant waterproofing before installing ceramic tiles.

**Mapegum EPX** is used for floors and walls that need to be covered with ceramic tiles in factories, industrial kitchens, slaughterhouses, etc. to protect the substrate from chemical aggression.

**Mapegum EPX** should be applied in two coats by brush, roller or trowel in a total thickness of not less than 1 mm.

To install tile over **Mapegum EPX** use **Kerapoxy**, or sprinkle sand onto the second coat while still fresh and use **Granirapid** or **Adesilex P4**.

For walls, use **Mapegum EPX-T**, the thixotropic version.

Colour: grey.

### Consumption

1.4 kg/m<sup>2</sup> per mm of thickness.

### Packaging

**Mapegum EPX**: 10 kg (A+B);

**Mapegum EPX-T**: 10 kg (A+B).





## Aquaflex System



### Flexible, waterproofing and anti-fracture liquid membrane.

Use **Aquaflex** to waterproof all types of surfaces indoors and outdoors, as long as not permanently in contact with water and for waterproofing old bituminous or asphalt coverings.

**Aquaflex** can also be used as a flexible anti-fracture membrane for damaged substrates on which ceramic tiles or stone material can be installed, to prevent the formation of cracks on the covering.

**Aquaflex** is a ready-to-use grey or white coloured paste with a base of synthetic resins in water dispersion. Once dried it becomes a continuous flexible and waterproof membrane. For perfect bonding of **Aquaflex**, it is recommended to use **Primer for Aquaflex** over all difficult substrates such as: asphalt, bituminous membranes, old glazed tiles and cement surfaces. To avoid the formation of cracks due to substrate movement or of the tiled surface, it is recommended to insert a **Mapei Fibreglass Mesh** in the coat of **Aquaflex**. In particular, the use of the mesh is necessary in correspondence with the corners of the walls. As an alternative, use **Mapeband**.

The final thickness of **Aquaflex** should not be less than 1 mm in order to create a consistent, flexible and continuous film, making sure there are no interruptions due to substrate flaws.

**Aquaflex** is classified as a class 1 product according to fire resistance regulations (UNI 8457-9174).

### Consumption

- **Primer for Aquaflex:** 160 g/m<sup>2</sup> (wet) per coat;
- **Aquaflex:** 300-450 g/m<sup>2</sup> (wet) per coat.

### Packaging

- **Primer for Aquaflex:** 5 kg ADR/RID approved packaging;
- **Aquaflex:** 25-10-5 kg drums.



## Triblock P



### Three-component, epoxy-cementitious primer for damp substrates.

**Triblock P** is used for waterproofing vertical and horizontal surfaces which are damp due to the counter-pressure of water or capillary lift, before applying parquet, PVC, linoleum, ceramics, cementitious smoothing and levelling compounds and epoxy and polyurethane coats, since their low permeability to vapour may cause blistering or detachment of the coat.

**Triblock P** is supplied in kits of 3 pre-dosed components, which must be mixed together using a low-speed drill until a smooth, lump-free paste is obtained. After diluting with from 5 to 20% of water, apply **Triblock P** with a brush, by roller or with the airless spray system in 2 coats, to create a continuous, uniform layer without porosity.

If the surface to be treated is uneven, we recommend mixing 1 part in weight of **Triblock P (A+B+C)** with 0.5 parts in weight of **Quartz 0.25** or **Quartz 0.5**. In this case, the mortar must be applied at a maximum thickness of 1 mm. After smoothing off, if the surface is damp and subject to the counter-pressure of water, a further coat of **Triblock P** diluted with 5-10% of water must be applied.

### Consumption

- 250-300 g/m<sup>2</sup> per coat, on non-absorbent surfaces;
- 400-500 g/m<sup>2</sup> per coat, on absorbent surfaces;
- 1.5 kg/m<sup>2</sup> per mm of thickness when used as a smoothing compound.

### Packaging

5 kg units (A+B+C).



## Triblock Finish



### Three-component epoxy-cementitious thixotropic mortar for smoothing off damp substrates.

**Triblock Finish** is used for protecting and evening out vertical and horizontal concrete surfaces subject to damp, such as channels, drains and concrete pipes, for which good chemical resistance and high resistance to abrasion is required. **Triblock Finish** is an epoxy-cementitious system with the capacity of curing on damp indoor and outdoor surfaces, and of forming a compact, waterproof layer which, if required, is suitable for covering with epoxy and polyurethane products.

**Triblock Finish** is supplied in kits of 3 pre-dosed components, which must be mixed together using a low-speed drill until a smooth, lump-free paste is obtained.

The mortar must be spread on evenly using a metal trowel, at a thickness of up to 3 mm.

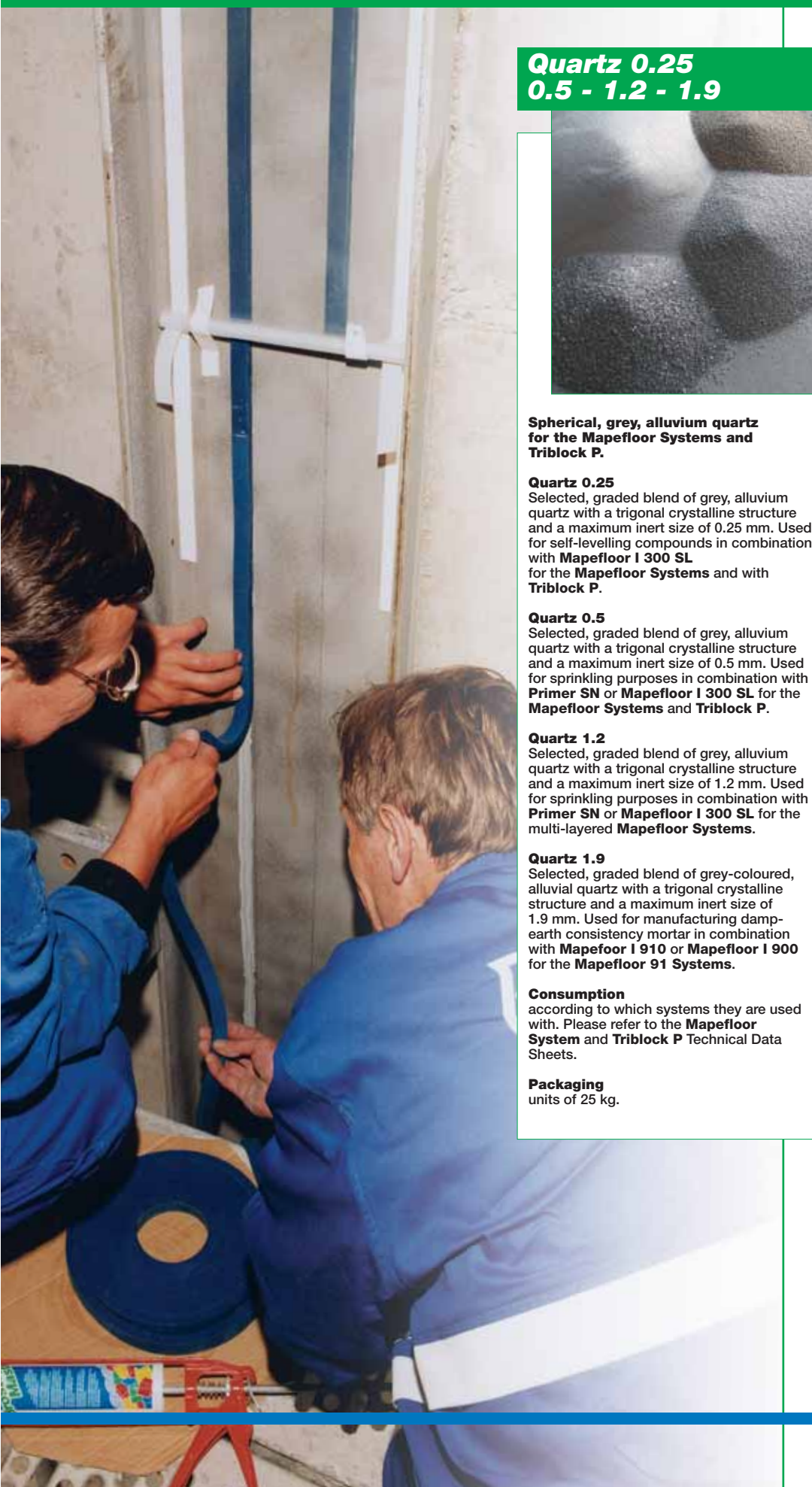
### Consumption

2 kg/m<sup>2</sup> per mm of thickness, dependent on the type of substrate.

### Packaging

31.25 kg kits (A+B+C).





## Quartz 0.25 0.5 - 1.2 - 1.9



**Spherical, grey, alluvium quartz for the Mapefloor Systems and Triblock P.**

### Quartz 0.25

Selected, graded blend of grey, alluvium quartz with a trigonal crystalline structure and a maximum inert size of 0.25 mm. Used for self-levelling compounds in combination with **Mapefloor I 300 SL** for the **Mapefloor Systems** and with **Triblock P**.

### Quartz 0.5

Selected, graded blend of grey, alluvium quartz with a trigonal crystalline structure and a maximum inert size of 0.5 mm. Used for sprinkling purposes in combination with **Primer SN** or **Mapefloor I 300 SL** for the **Mapefloor Systems** and **Triblock P**.

### Quartz 1.2

Selected, graded blend of grey, alluvium quartz with a trigonal crystalline structure and a maximum inert size of 1.2 mm. Used for sprinkling purposes in combination with **Primer SN** or **Mapefloor I 300 SL** for the multi-layered **Mapefloor Systems**.

### Quartz 1.9

Selected, graded blend of grey-coloured, alluvial quartz with a trigonal crystalline structure and a maximum inert size of 1.9 mm. Used for manufacturing damp-earth consistency mortar in combination with **Mapefloor I 910** or **Mapefloor I 900** for the **Mapefloor 91 Systems**.

### Consumption

according to which systems they are used with. Please refer to the **Mapefloor System** and **Triblock P** Technical Data Sheets.

### Packaging

units of 25 kg.

## Isamite



### Bituminous paint in solvent solution.

Use **Isamite** as an adhesive primer for waterproofing works with bituminous membranes. **Isamite** can also be used as a protective paint for concrete and masonry walls in direct contact with the ground, for underground metal structures, the inside of waste water tanks and for metal gutters. **Isamite** is a ready-to-use bitumen based product in solvent solution.

**Isamite** can be applied by brush or spray in two coats on clean, sound and dry substrates. After it has completely dried, **Isamite** applied in the appropriate thickness forms a protective and waterproof coat.

**N.B.** ADR/RID approved packaging.

### Consumption

- on metal surfaces: 100-150 g/m<sup>2</sup> per coat;
- on concrete and wood: 250-300 g/m<sup>2</sup> per coat.

### Packaging

10 kg drums.





## Plastimul Primer



**Solvent-free, bitumen primer for treating substrates before applying a waterproofing product from the Plastimul range.**

**Plastimul Primer** is used as a primer to improve and even out the bonding properties of laying substrates for products from the **Plastimul** range for waterproofing applications.

**Plastimul Primer** is a aqueous emulsion of high-quality, low-viscosity bitumen, and is completely solvent-free.

**Plastimul Primer** may be applied on concrete, solid bricks and tiles using either a brush or a roller, on both dry or slightly damp substrates.

### Consumption

200-300 g/m<sup>2</sup> according to the type and absorption of the substrate.

### Packaging

30 and 12 kg drums.



## Plastimul



**Bitumen waterproofing emulsion for general purpose use.**

**Plastimul** is used for waterproofing horizontal and vertical surfaces, such as foundations, retaining walls, layers beneath tiles, etc. Due to its bonding characteristics, **Plastimul** may be used to attach insulating materials such as cork, rock-wool, etc.

**Plastimul** is a aqueous emulsion of a high-quality, bitumen paste, and is completely solvent-free. For waterproofing applications, spread on a number of layers of **Plastimul** until the required thickness is achieved.

Once dry, **Plastimul** forms a plastic layer which is resistant to water.

### Consumption

ca. 1 kg/m<sup>2</sup> for waterproofing vertical surfaces.

### Packaging

30 and 12 kg drums.



## Plastimul 1K Super Plus



**Highly flexible bitumen waterproofing emulsion with added polystyrene beads and rubber granules.**

**Plastimul 1K Super Plus** is used for waterproofing horizontal and vertical concrete and brick surfaces, subject to high dynamic stresses.

**Plastimul 1K Super Plus** is a single component, ready-to-use, quick-drying bitumen emulsion with low shrinkage and high flexibility, with added polystyrene beads and small rubber granules. The product is applied using a flat or notched trowel. Once dry, it forms a waterproof finish with highly flexible properties.

### Consumption

0.8 kg/m<sup>2</sup> per mm of thickness, dependent on the type of substrate.

### Packaging

7.8 and 19.5 kg drums.



## Plastimul 2K



### Two-component bitumen emulsion with cellulose fibres.

**Plastimul 2K** is used for waterproofing horizontal and vertical surfaces at low temperatures or with excessive damp.

**Plastimul 2K** is a two-component, solvent-free bitumen emulsion with added cellulose fibres and hydraulic filling binders. Pour the hydraulic binder slowly into the bituminous emulsion and mix at a low speed to avoid the formation of lumps. Keep mixing until the mix is homogenous.

**Plastimul 2K** is particularly suitable for application on smooth surfaces and when the environment is highly rich with aggressive substances.

**Plastimul 2K** may also be used for spot bonding insulating panels, and acts as a protection around the perimeter of the waterproofing.

Application: smooth or notched trowel.

### Consumption

1.7 kg/m<sup>2</sup> per mm of thickness, dependent on the type of substrate.

### Packaging

30 kg kits (A + B).  
comp. A: 22 kg;  
comp. B: 8 kg.



## Plastimul 2K Super



### Two-component, highly flexible bitumen waterproofing emulsion with added polystyrene beads.

**Plastimul 2K Super** is used for waterproofing horizontal and vertical concrete and brick surfaces, which are subject to high dynamic stresses, and when the waterproofing cycle is carried out at low temperatures and in the presence of a high level of humidity.

**Plastimul 2K** is a two-component, solvent-free, highly flexible bitumen emulsion with added polystyrene beads. Pour the hydraulic binder slowly into the bituminous emulsion and mix at a low speed to avoid the formation of lumps. Keep mixing until the mix is homogenous.

**Plastimul 2K Super** is applied using a flat or notched trowel. Once dry, thanks to the hydraulic filling binder, it is quicker and forms a waterproof coating with highly flexible properties.

### Consumption

1 kg/m<sup>2</sup> per mm of thickness, dependent on the type of substrate.

### Packaging

22 kg kits (A + B).  
comp. A: 17.6 kg;  
comp. B: 4.4 kg.



## Plastisol 1



### Bitumen based plastic cement.

Use **Plastisol 1** for sealing joints and cracks on horizontal roofs and for waterproofing concrete gutters and flat roofing that is not subject to foot traffic.

**Plastisol 1** is a compound of selected bitumens, plasticizing additives and special fibres; it forms a perfect bond to the substrate and retains its plastic properties unaltered over time.

**Plastisol 1** is ready-to-use; apply by trowel onto dry substrates.

**Plastisol 1** does not contain asbestos.

**N.B. ADR/RID approved packaging.**

### Consumption

1.2 kg/m<sup>2</sup> per mm of thickness.

### Packaging

8 kg drums.





## Resfoam 1 KM



**Super fluid one-component polyurethane resin to be injected for waterproofing concrete or masonry structures, grounds, and rocks subject to intense water percolation with variable adjustable setting times.**

**Resfoam 1 KM** is a one-component polyurethane resin, free of halogens, that is able to react in the presence of water by forming a foam.

**Resfoam 1 KM** must be mixed with 10-20% **Resfoam 1 KM AKS** accelerator. Thanks to its high fluidity, **Resfoam 1 KM** penetrates several hundred micron thick cracks and can seal them even if they are subject to water infiltrations.

After its reaction, which occurs after 40-80 seconds depending on the temperature and the amount of added accelerator, the **Resfoam 1 KM** foam becomes semi-rigid and watertight.

### Consumption

approximately 1 kg of mixture (0.9 kg of resin plus 0.1 kg of accelerator) per 50 l of cavity to be filled in free expansion.

### Packaging

- **Resfoam 1 KM:** 10 kg drums.
- **Resfoam 1 KM AKS:** 1 kg drums.



## Foamjet F



**Fluid ultra rapid setting two-component polyurethane resin to be injected for consolidating and waterproofing structures subject to weak water ingress.**

Use **Foamjet F** to consolidate rocks, grounds and to waterproof cracked concrete and masonry structures such as tunnels, shafts, dams, canals, bulkheads, damp flooring or beds.

**Foamjet F** is a two-component halogen-free resin that must be used with special machinery that is able to measure and mix Part A with Part B in a 1:1 ratio by volume. Thanks to its high fluidity, **Foamjet F** can penetrate through cracks of only several hundred microns and seals the cracks even if they are subject to water infiltrations. Once set, **Foamjet F** becomes perfectly watertight and ensures an effective consolidation of the structure.

### Consumption

in the absence of water, approximately 1.1 kg/dm<sup>3</sup> of cavity to be filled;  
in the presence of water, approximately 0.3 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

22.5 kg (A+B).



## Foamjet T



**High viscosity ultra rapid setting two-component polyurethane resin to be injected for consolidating and waterproofing structures subject to high pressure water ingress.**

Use **Foamjet T** to waterproof cracked concrete and masonry structures such as tunnels, shafts, dams, canals, bulkheads, flooring or beds subject to strong water ingress.

**Foamjet T** is a two-component halogen-free resin that must be used with special machinery that is able to measure and mix Part A with Part B in a 1:1 ratio by volume. Thanks to its high fluidity, **Foamjet T** can penetrate through fissures of only several hundred microns and seals the cracks even if they are subject to water infiltrations. Once set, **Foamjet T** becomes perfectly watertight and ensures an effective consolidation of the treated structure.

### Consumption

in the absence of water, approximately 1.1 kg/dm<sup>3</sup> of cavity to be filled;  
in the presence of water, approximately 0.3 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

22.6 kg (A+B).



## Mapegel 50



**Three-component hydrophilic gel for consolidating grounds and for barrage injection in concrete.**

**Mapegel 50** is used for consolidating grounds that are not very cohesive, for waterproofing hydraulic structures that leak water through macro-porosities and micro-cracks such as dams, bulkheads and tunnels.

**Mapegel 50** is a hydrophilic gel based on metacrylates composed of 3 components. After its preparation and thanks to its low viscosity, **Mapegel 50** can easily penetrate through macro-porosities and very small cavities, sealing them perfectly. After it has hardened, **Mapegel 50** has high viscosity and excellent chemical resistance to the main organic and inorganic liquids.

Pour part A (resin) into a clean plastic container and while stirring add part B (hardener). In another container dilute part C (accelerator) with 20 l of water. Separately pump the two solutions 1:1 by volume using a metal pump for two-component products fitted with a special static mixer placed at the mouth of the nozzle, before the injector.

### Consumption

approximately 1 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

21.3 kg units:  
– part A = 20 kg;  
– part B = 1 kg;  
– part C = 0.3 kg.



## Lamposilex



**Ultra-fast setting and drying hydraulic binder for plugging water leaks.**

Use **Lamposilex** to plug any source of water, even under pressure, in basements, tunnels, subways etc. and for sealing watertight rigid joints in hydraulic concrete structures, sewers, tanks and canals. Where seepage is present **Lamposilex** must be used before waterproofing with **Idrosilex Pronto**.

Once mixed with water **Lamposilex** forms a paste with a plastic consistency that sets in about 2 minutes.

Pour 1 kg of **Lamposilex** into a bucket containing 280 g of water while mixing very vigorously with a hand trowel until a homogeneous paste is obtained. For measures by volume, mix 2.5 parts of **Lamposilex** with 1 part of water. Immediately apply **Lamposilex** using a gloved hand.

### Consumption

1.8 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

5 kg drums.



Rome subway - Italy  
Waterproofing the ceiling with:  
ADESILEX PG1, ADESILEX PG2,  
MAPEBAND PVC



New

## Mapeproof



### Bentonite waterproofing sheets for structures below ground level, suitable for both horizontal and vertical surfaces

**Mapeproof** is made from two layers of polypropylene geo-textile fabric which are needle-punched together to form a sandwich around a uniform layer of 5.1 kg of natural sodium bentonite.

The needle-punching process involves the use of thousands of needles with a hooked tip, which force part of the fibres of the upper layer of non-woven fabric through the middle layer of bentonite, and stitch it to the lower support layer of geo-textile fabric. Thanks to this special sewing process, the micronized natural sodium bentonite contained in the **Mapeproof** sheets remains in position, even when it becomes wet or if it is applied on vertical surfaces.

The properties of **Mapeproof** make it form a self-sealing composite which, in contact with water or humidity in the ground, forms a gel with excellent waterproofing properties.

The product is available in the following formats:

- 1.10 m x 5.00 m rolls;
- 2.50 m x 22.50 m rolls;
- 5.00 m x 40 m rolls.

## Mapeproof LW



### Bentonite waterproofing sheets for use on horizontal and vertical structures below ground level with a maximum water table of 5 metres.

**Mapeproof LW** is made from two layers of polypropylene geo-textile fabric which are needle-punched together to form a sandwich around a uniform layer of 4.1 kg of micronized natural sodium bentonite.

The needle-punching process involves the use of thousands of needles with a hooked tip, which force part of the fibres of the upper layer of non-woven fabric through the middle layer of bentonite, and stitch it to the lower support layer of geo-textile fabric. Thanks to this special sewing process, the micronized natural sodium bentonite contained in the **Mapeproof LW** sheets remains in position, even when it becomes wet or if it is applied on vertical surfaces.

The properties of **Mapeproof LW** make it form a self-sealing composite which, on contact with water or humidity in the ground, forms a gel with excellent waterproofing properties.

The product is available in the following formats:

- 2.50 m x 22.50 m rolls;
- 5.00 m x 40 m rolls.

## Mapeproof CD



### Washers used to fasten Mapeproof bentonite sheets in place.

Polyethylene washers used to fasten **Mapeproof** bentonite sheets in place on horizontal and vertical surfaces.

**Mapeproof CD** may be used with both hammer and nails or with a nail gun. Apply **Mapeproof CD** washers every 50 cm on the overlaps between **Mapeproof** bentonite on horizontal surfaces, and every 30 cm on vertical surfaces.

**Packaging**  
boxes with 500 washers.



Milan Underground - Italy  
Waterproofing of walls with:  
LAMPOSILEX, ADESILEX PG1, MAPEFINISH

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New

## Mapeproof Mastic



**Bentonite paste made from natural sodium bentonite and plasticising additives for sealing elements which pass through surfaces.**

**Mapeproof Mastic** bentonite paste is made from natural sodium bentonite and plasticising additives.

**Mapeproof Mastic** is used for sealing elements (such as tie bolts) which pass through surfaces, for sealing formwork and small honeycombs voids, to blend in edges and corners and for localised repairs to bentonite sheets.

One of the characteristics of **Mapeproof Mastic** is that it is extremely easy to use.

### Packaging

10-litre drums with 15 kg of product



New

## Mapeproof Seal



**Natural sodium bentonite in powder form for localised strengthening of waterproofing layers made using Mapeproof bentonite sheets.**

**Mapeproof Seal** may be used for filling voids and cavities on horizontal surfaces before laying **Mapeproof**, and for repairing tears in the sheets or defects in the overlapped areas of the sheets. Apply the product as is on horizontal surfaces.

### Packaging

25 kg paper sacks.



## Mapeproof Swell



**Hydro-expansive, rubber-based hydrophilic sealant paste in cartridges, applied using an extrusion gun.**

**Mapeproof Swell** has been specially formulated to make waterproof, flexible seals in cracks in reinforced cement and in prefabricated elements infiltrated by water. Storage: store in a closed, dry area in its original packaging.

### Packaging

320 ml cartridges.





# Dehumidifying renders





## Mape-Antique Rinzafo



Light-coloured salt-resistant cement-free pre-packed lime- and Eco-Pozzolan-based mortar to be used before applying Mape-Antique MC, Mape-Antique CC and Mape-Antique LC, dehumidifying mortars on stone, tuff and brick substrates.

Mape-Antique Rinzafo is especially recommended as first coat in the restoration of old stone, tuff and brick buildings damaged by the strong presence of chlorides. It is especially recommended to improve the adhesion and chemical/physical resistance to soluble salts of macro-porous mortars such as Mape-Antique MC, Mape-Antique CC, and Mape-Antique LC dehumidifying mortars.

Mape-Antique Rinzafo's special properties prevent soluble salts from penetrating macro-porous mortars. The hygroscopicity of soluble salts such as chlorides can cause localised humidity in mortars used in insufficiently ventilated areas.

Mix a 20 kg bag of Mape-Antique Rinzafo with 5 to 5.5 l of water in an ordinary job site mixer for 5-6 minutes.

Mape-Antique Rinzafo is applied by trowel in a maximum thickness of approx. 5 mm.

### Consumption

7.5 kg/m<sup>2</sup> per 5 mm of thickness.

### Packaging

20 kg bags.



## Mape-Antique MC



Pre-packed, cement-free, light coloured dehumidifying lime- and Eco-Pozzolan-based mortar for the restoration of damp stone, brick and tuff masonry.

Mape-Antique MC is especially recommended for the restoration of stone, brick and tuff buildings damaged by capillary rising damp and for the restoration of structures damaged by soluble salts.

Mape-Antique MC is applied after applying Mape-Antique Rinzafo and is suitable for the restoration of buildings damaged by chlorides.

Mix a 25 kg bag of Mape-Antique MC with 3.5-4 l of water in a cement mixer for 5-6 minutes.

Mape-Antique MC is applied by trowel and should not be less than 2 cm thick.

### Consumption

15 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



Ferro Palace - Trapani - Italy  
Reparation and decoration of the façade with:  
MAPE-ANTIQUE MC, MAPE-ANTIQUE RINZAFFO,  
SILEXCOLOR PRIMER, SILEXCOLOR TONACHINO



## Mape-Antique CC



**Pre-mixed cement-free brick-coloured dehumidifying lime- and Eco-Pozzolan-based mortar for the restoration of damp stone, brick and tuff masonry.**

**Mape-Antique CC** is especially recommended for the restoration of stone, brick and tuff buildings damaged by capillary rising damp and for the restoration of structures damaged by sulphate salts.

**Mape-Antique CC** applied after **Mape-Antique Rinzafo** is suitable for the restoration of buildings damaged by strong presence of chlorides.

Mix a 25 kg bag of **Mape-Antique CC** with 3.5-4 l of water in a cement mixer for 5-6 minutes.

**Mape-Antique CC** is applied by trowel and should not be less than 2 cm thick.

### Consumption

15 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Mape-Antique LC



**Cement-free hydraulic binder for light-coloured dehumidifying lime- and Eco-Pozzolan-based mortars for the restoration of damp stone, brick and tuff masonry.**

**Mape-Antique LC** is a pre-blended sulphate-resistant binder used to prepare thick-bed mortars and dehumidifying renders to restore masonry subject to rising damp or damaged by soluble salts present in the ground, water table, and construction materials.

**Mape-Antique LC** is a ready-to-use white coloured binder, with a base of hydraulic materials with pozzolanic action, synthetic fibres and additives and can be tinted on site with inorganic oxides. Mix a 20 kg bag of **Mape-Antique LC** with 40 kg of sand graded between 0.5 and 2.5 mm or with 50 kg of sand graded from 0.5 to 5 mm in a cement mixer for 5-6 minutes.

The **Mape-Antique LC** mortar should be applied after applying

**Mape-Antique Rinzafo** and is suitable for the restoration of buildings damaged by chlorides and sulphates. For maximum dehumidifying, plasters produced with **Mape-Antique LC** must not be less than 20 mm thick.

### Consumption

from 500 kg/m<sup>3</sup> with sand graded between 0.5 and 2.5 mm to 440 kg/m<sup>3</sup> with sand graded between 0.5 and 5 mm.

### Packaging

20 kg bags.



## Mape-Antique FC Mape-Antique FC/R



**Cement-free lime- and Eco-Pozzolan-based fine mortars, respectively light-coloured and light pink, for finishing dehumidifying mortars applied on stone, brick and tuff masonry.**

**Mape-Antique FC** is a light-coloured pre-blended sulphate-resistant mortar used for finishing rougher dehumidifying plasters such as **Mape-Antique MC** and **Mape-Antique LC**.

**Mape-Antique FC** is also available in the light pink **Mape-Antique FC/R** version for finishing **Mape-Antique CC** plaster.

**Mape-Antique FC** and **Mape-Antique FC/R** are ready-to-use mortars with a base of hydraulic binders with pozzolanic action, special additives and finely graded natural sand.

Mix a 25 kg bag of **Mape-Antique FC** or **Mape-Antique FC/R** with 5.75-6.0 l of water with a drill filled with an agitator until completely blended.

**Mape-Antique FC** and **Mape-Antique FC/R** are applied with a trowel or spatula on clean substrates that have been saturated with water beforehand, in a thickness of 1-2 mm. After 15-20 minutes the surface can be finished with a sponge float.

### Consumption

1.45 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags.



Palazzo Gradari - Pesaro - Italy  
Reparation and decoration of the façade with:  
MAPE-ANTIQUE RINZAFFO, MAPE-ANTIQUE MC,  
MAPE-ANTIQUE FC and FC/R, SILEXCOLOR PRIMER,  
SILEXCOLOR TONACHINO, SILEXCOLOR PAINT

## PoroMap Rinzaffo



**Pre-blended salt-resistant mortar to be applied by hand before the dehumidifying and thermal insulating render PoroMap Intonaco.**

**PoroMap Rinzaffo** is an adhesive mortar, resistant to salts, composed of special hydraulic binders with pozzolanic reaction, natural sand and special additives. The product must be applied before creating the dehumidifying render with **PoroMap Intonaco** on stone, brick and tuff substrates.

Applied as a first layer, **PoroMap Rinzaffo** is especially suitable for repairing old stone, tuff and brick buildings damaged by the strong presence of soluble salts.

**PoroMap Rinzaffo's** special properties prevent soluble salts from penetrating macro-porous mortars. The hygroscopicity of soluble salts such as chlorides, sulphates and nitrates can cause localised humidity in mortars used in insufficiently ventilated areas.

Mix a 25 kg bag of **PoroMap Rinzaffo** with 4.6 l of water in a cement mixer for 5-6 minutes.

**PoroMap Rinzaffo** is applied, maximum 5 mm thick.

### Consumption

7.5-8 kg/m<sup>2</sup> per 5 mm of thickness.

### Packaging

25 kg bags.



## PoroMap Intonaco



**Grey coloured, pre-blended, dehumidifying and thermal insulating salt-resistant mortar, for the restoration of damp stone, brick and tuff masonry to be applied by hand.**

**PoroMap Intonaco** is a pre-packed dehumidifying mortar. It is composed of special hydraulic binders with pozzolanic reaction, natural sand and special additives. **PoroMap Intonaco** is used for restoring stone, brick and tuff masonry damaged by rising damp.

**PoroMap Intonaco**, applied after **PoroMap Rinzaffo**, is suitable for repairing buildings damaged by the strong presence of soluble salts.

Mix a 20 kg bag of **PoroMap Intonaco** with 6-6.1 l of water in a cement mixer for 5-6 minutes.

**PoroMap Intonaco** is applied, minimum 2 cm thick.

### Consumption

10-11.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

20 kg bags.





## PoroMap Rinzaffo Macchina



**Pre-blended, salt-resistant mortar applied with a rendering machine, before applying a dehumidifying, insulating layer of PoroMap Intonaco Macchina.**

**PoroMap Rinzaffo Macchina** is a salt-resistant adhesive mortar, made up of special, pozzolanic-reaction hydraulic binders, natural sand and special additives which is applied on stone, brick and tuff substrates before the layer of **PoroMap Intonaco Macchina** dehumidifying mortar.

Thanks to its special characteristics, **PoroMap Rinzaffo Macchina** avoids soluble salts being transferred into the macro-porosity, such as chlorides which, because of their hygroscopic properties, may give rise to localised damp in areas which are not well ventilated. The mortar must be prepared using a continuous mixer, and applied at a thickness of at least 5 mm.

### Consumption

7.5-8 kg/m<sup>2</sup> for a 5 mm-thick layer.

### Packaging

25 kg bags.



## PoroMap Intonaco Macchina



**Pre-blended, salt-resistant dehumidifying and insulating mortar for renovating damp stone, brick and tuff masonry, applied with a rendering machine.**

**PoroMap Intonaco Macchina** is a pre-blended dehumidifying mortar, made up of special, hydraulic pozzolanic-reaction binders, natural sand, light aggregates and special additives, for renovating stone, brick and tuff masonry which has deteriorated due to damp and capillary lift.

**PoroMap Intonaco Macchina** is applied after **PoroMap Rinzaffo Macchina**, and is suitable for renovating buildings deteriorated by the presence of a high level of soluble salts. The mortar must be prepared using a continuous mixer, and applied at a thickness of at least 2 cm.

### Consumption

11.5-13 kg/m<sup>2</sup> per cm of thickness.

### Packaging

20 kg bags.





# Chemical barriers

## PoroMap Finitura



**Cement-free, light-coloured, fine mortar for finishing off dehumidifying render applied on stone, brick and tuff masonry work.**

**PoroMap Finitura** is a light-coloured fine mortar resistant to sulphates, employed for finishing off dehumidifying render in **PoroMap Intonaco** or larger-grained render, for the stone or brick structures of buildings, including those of historical interest.

**PoroMap Finitura** is a cement-free, powder-form blend of pozzolanic-reaction hydraulic binders, special admixes and fine natural sand.

When blended with water, **PoroMap Finitura** forms a light-coloured plastic mix which is easy to apply.

Prepare the product by mixing a 25 kg bag of **PoroMap Finitura** with 5.75-6 l of water using a drill with a mixer attachment.

Apply **PoroMap Finitura** with a trowel or metallic float at a thickness of 1-2 mm on a clean substrate saturated with water, or on fresh render as soon as it starts to set ("fresh on fresh" technique). 15-20 minutes after application, the surface of **PoroMap Finitura** may be finished off using a sponge float.

### Consumption

1.4 kg/m<sup>2</sup> per mm of thickness.

### Packaging

25 kg bags.



## Mapestop



**Agent for injection, composed of concentrated silicone micro-emulsion for creating a chemical barrier against rising damp in the masonry.**

**Mapestop** is used to form a chemical barrier against rising damp through capillary pores that are always present in construction materials. In particular, **Mapestop** is used to repair old or new full brick and/or stone masonry that are built on damp sites or near water, mixed brick or stone masonry, cavity walls, tuff masonry, concrete masonry or aerated concrete blocks.

**Mapestop** is a solvent-free concentrated micro-emulsion that must be diluted on site before using it with drinking water (1 part of **Mapestop** with 15-19 parts of water).

Thanks to the reduced size of particles, from 20 to 60 nanometres, the **Mapestop** micro-emulsion can deeply penetrate into the damp masonry and, after the reaction with water, forms an efficient and durable watertight barrier.

**Mapestop** must be injected in every single hole under the effect of gravity using special containers or a low pressure pump (max 1 bar) until the injected zone is completely saturated.

### Consumption

depending on the absorbency of the masonry. Indicatively 8-9 kg/m for a 40 cm thick wall.

### Packaging

1 kg metal can with screw type lid;  
180 kg drums.





# Restoration of wooden structures

## Mapewood Primer 100



**Fluid epoxy primer in water dispersion for consolidating and priming timber structures.**

**Mapewood Primer 100** is used for consolidating porous timber structural elements (beams, trusses and columns) damaged by decay wood-rotting fungi or due to the attack of wood-eating insects. It is also used for priming, after the removal of the damaged part, the end-parts of structural elements in high density wood that need to be reconstructed by bonding a new wood element.

**Mapewood Primer 100** is an epoxy primer in water dispersion composed of two pre-measured parts that must be mixed before use (Part A = resin and Part B = hardener). Due to **Mapewood Primer 100**'s low viscosity, once mixed it can impregnate and penetrate in depth into all types of porous wooden surfaces, improving cohesion and resistance to biological attack. Used on low absorbency surfaces such as oak or chestnut, **Mapewood Primer 100** improves the bonding of **Mapewood Gel 120** and **Mapewood Paste 140**.

Part B into Part A and mix with a drill fitted with a whip until the resin is completely smooth. Mixing ratio: 1 part by weight Part A and 1 part by weight Part B. Apply **Mapewood Primer 100** on the timber element with a roller, a brush or small bottle brush. Once prepared, **Mapewood Primer 100** is workable for approximately 40 minutes at +23°C. **Mapewood Primer 100** must be used within its pot life, therefore it is important to organize the work in order to finish the whole package of the product within this time.

**Consumption**  
approximately 150 g/m<sup>2</sup>.

**Packaging**  
1 kg units (A+B).





## Mapewood Gel 120



**Epoxy adhesive with medium viscosity for structural strengthening timber elements by bonding new wood elements.**

**Mapewood Gel 120** is used for filling holes in wooden structures that need to be repaired such as beams, trusses and columns and in the new wood element in order to anchor connecting reinforcing rods or plates.

**Mapewood Gel 120** is a solvent free epoxy adhesive of a gelatine consistency composed of two pre-measured parts that must be mixed before use (Part A = resin and Part B = hardener).

Pour Part B into Part A and mix with a drill fitted with a whip until the resin is completely smooth. In order to avoid accidental measuring errors, use the whole package of the product. If partial quantities are necessary, use an electronic precision scale.

**Mapewood Gel 120** is easy to apply and hardens without shrinkage becoming a mixture with extremely high bonding strength, compatibility with wood and mechanical strength.

### Consumption

1.01 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

2.5 kg units (A+B).



## Mapewood Paste 140



**Thixotropic epoxy adhesive for structural strengthening timber elements by bonding new wood elements.**

**Mapewood Paste 140** is used for filling holes in wooden structures that need to be repaired such as beams, trusses and columns and in the new wood element in order to bond wood to wood or anchor metal or composite material connecting reinforcing rods or plates.

**Mapewood Paste 140** is a solvent free epoxy adhesive of a thixotropic consistency composed of two pre-measured parts (Part A = resin and Part B = hardener).

**Mapewood Paste 140** is available in two packages: the first is the traditional packaging, made up of two plastic drums containing the two parts. Once the two parts have been mixed, the product can be applied manually with a flat trowel. The parts of the second packaging must first be manually mixed and then can be applied by extrusion from a cartridge.

**Mapewood Paste 140** can be easily applied both on vertical and horizontal surfaces. It hardens without shrinkage becoming a paste with excellent bonding and mechanical strength compatible with wood. Fill the hole or cavity made on one side of the wooden piece (beam, column, truss) with **Mapewood Paste 140**. Position the connecting rod or plate near the reinforcing rod to the element that needs repair making sure the cut surfaces perfectly fit.

### Consumption

1.59 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

3 kg drums (A+B) and kits made up of 450 g jars (A+B), extruding disk and standard size empty cartridge.



The Farmer Museum - Milan - Italy  
Reparation of the wooden structures with:  
MAPEWOOD PRIMER 100, MAPEWOOD GEL 120,  
MAPEWOOD PASTE 140



# Consolidating masonry and renders

## Mape-Antique I



**Cement-free fillerized hydraulic lime- and Eco-Pozzolan-based binder, for consolidating, by injection, stone, brick work and tuff structures.**

**Mape-Antique I** is a pre-blended sulphate-resistant binder used to obtain injection slurries to consolidate stone cavity walls, refill cavities, cracks and internal porosity present in period structures in stone and brick.

**Mape-Antique I** is a ready-to-use binder with a base of pozzolanic-reaction inorganic materials, special additives and ultra fine fillers.

Mix a 20 kg bag of **Mape-Antique I** with 7 l of water with a drill fitted with an agitator, until a homogeneous mix is obtained.

**Mape-Antique I** is applied with an injection pump ("Clivio" type) manually or automatically.

**Consumption**  
approximately 1.40 kg/dm<sup>3</sup> of cavity to be filled.

**Packaging**  
20 kg bags.



## Mape-Antique F21



**Super fluid cement-free fillerized lime- and Eco-Pozzolan-based hydraulic binder, for consolidating, by injection, stone, brick and tuff structures, especially suitable for frescoed walls.**

**Mape-Antique F21** is especially recommended for consolidating stone, brick, tuff walls and arches of buildings, cracked and/or frescoed renders.

**Mape-Antique F21** mixed with 10.2 l of water in a high turbulence mixer or with a drill fitted with a whip, produces a fluid and stable slurry. The slurry can fill the cavities of the structures that need consolidation and gradually hardens through a pozzolanic reaction without inter-reaction (dangerous reactions) with bricks, stones and existing mortars even in the presence of soluble salts (e.g. sulphates).

**Consumption**  
1.04 kg/dm<sup>3</sup> of cavity to be filled.

**Packaging**  
17 kg bags.



St. Francis Basilica - Assisi - Italy  
Consolidation of the masonry with:  
MAPE-ANTIQUE I, MAPE-ANTIQUE F21



## Mape-Antique Strutturale



**Pre-blended, cement-free, light-coloured lime and Eco-Pozzolan-based mortar, particularly suitable for use as render or as a "reinforced" installation layer on stone, brick and tuff structures.**

**Mape-Antique Strutturale** is particularly suitable for renovating deteriorated render on stone buildings, including those of historical interest, and for render and reinforced installation mortar with higher mechanical strength than conventional lime mortar.

When **Mape-Antique Strutturale** is mixed together with just water for approximately 5 minutes in a drum mixer or render mixer, it forms a mortar with a plastic-thixotropic consistency which is easy to apply with a trowel or rendering machine on both vertical surfaces and on ceilings.

According to UNI EN 998-2 standards, it is classified as type M15 masonry mortar, since it reaches a compressive strength of  $\geq 16 \text{ N/mm}^2$  (UNI EN 1015-11), even though it is totally cement-free and made using lime and Eco-Pozzolan.

### Consumption

approx.  $18 \text{ kg/m}^2$  per cm of thickness.

### Packaging

25 kg sacks.



## Consolidante 8020



**Re-soluble consolidating product in solvent for the conservative restoration of stone and porous substrates, line renders and painted surfaces.**

**Consolidante 8020** is used to consolidate stone and porous substrates, various types of render, porous stone and lime-based painted surfaces.

**Consolidante 8020** is a re-soluble solvent product characterised by its ability to penetrate deeply into porous substrates and its excellent resistance to alkalis.

Because of the small size of the molecules of the active polymeric substance, the product may also be used to consolidate substrates with very small pores.

**Consolidante 8020** is easily re-soluble in solvent, even after a number of years of being applied.

**Consolidante 8020** is ready to use and must be applied using either a manual sprinkler or by applying swabs. The product must be applied a number of times, according to the type of substrate and the depth to which the product must penetrate.

### Consumption

$0.1\text{--}1 \text{ kg/m}^2$  according to the absorbency of the substrate.

### Packaging

10 kg drums.



## Primer 3296



**Acrylic primer in water dispersion with strong penetrating action for consolidating porous surfaces and unsound screeds.**

**Primer 3296** is a primer made up of acrylic polymer micro-particles that can penetrate into building materials, even if they are not very porous.

Thanks to this property, **Primer 3296** is especially suitable for consolidating weak and chalky substrates such as old renders, full-brick, sandstone and tuff walls, lime and cement mortar beds.

**Primer 3296** is applied pure or diluted 1:1 or 1:2 with water, with a brush, if the surface area is small, or with a manual pressure dispenser.

### Consumption

$50\text{--}250 \text{ g/m}^2$  depending on the absorption of the substrate.

### Packaging

5 and 10 kg drums.





# Bonding and smoothing foam bricks and expansive blocks

## BONDING AND SMOOTHING FOAM BRICKS AND EXPANSIVE BLOCKS

### Porocol



**Cement based powdered adhesive mortar for expansive block masonry.** Porocol is a whitish powder composed of cement, graded sand, synthetic resins and special additives.

When mixed with water, **Porocol** becomes an easily workable mortar with high adhesion and thixotropy that is easy to place on both vertical and horizontal surfaces.

**Porocol** hardens to develop high strength without noticeable shrinkage, adheres perfectly to all materials normally used in construction, and is resistant to water and frost. It can therefore be used for preparation of cellular cement block walls or rendering.

Application: notched trowel.

#### Consumption

- for flat block walls: from 5 to 7 kg/m<sup>2</sup> of surface to be bonded;
- for rendering: 1.4 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

25 kg bags.



### Adesilex P4



**Full contact adhesive for building foam bricks or expansive concrete block walls.**

**Adesilex P4** is a grey cement based powder consisting of graded sand, synthetic resins and special additives. **Adesilex P4** mixed with water forms a smooth, pourable paste, easy to apply with a trowel.

Thanks to its full contact property, **Adesilex P4** can be used as an adhesive for cellular bricks and blockwork, saving time and money.

**Adesilex P4** can also be used as an interior and exterior smoothing compound from 3 to 20 mm.

Application: trowel on or dip blocks into adhesive.

#### Consumption

- as an adhesive: depending on size of blocks;
- as a smoothing compound: 1.5 kg/m<sup>2</sup> per mm of thickness.

#### Packaging

25 kg bags.



# External thermal insulation system

## Adesilex FIS13



### Water dispersion adhesive for thermal insulation systems.

**Adesilex FIS13** is an adhesive, based on synthetic resins in water dispersion, modified with selected aggregates and special additives. Mixed with cement, it forms a compact mortar with excellent bonding strength on both normal renders and on foam panels used for thermal insulation systems.

**Adesilex FIS13** can be used for bonding polyurethane or polystyrene foam insulation panels on walls of external façades and for levelling surfaces of thermal insulation systems.

Mix **Adesilex FIS13** with cement in the ratio of 1 : 0.7 to 0.8, stirring thoroughly to prevent the formation of lumps, until a thick paste is obtained. This mix will hold the polystyrene foam panels as soon as they are positioned.

### Consumption

- bonding insulation panels: 1.8-2.4 kg/m<sup>2</sup>;
- total bonding of insulation panels with notched trowel n° 10: 2.7-3.2 kg/m<sup>2</sup>;
- smoothing compound: 1.0-1.2 kg/m<sup>2</sup>.

### Packaging

25 and 15 kg drums.



## Mapetherm AR1



### One-component cementitious mortar for bonding and levelling insulation boards and for external thermal insulation systems.

**Mapetherm AR1** is used for bonding and smoothing floors and ceilings, in interiors and exteriors, insulation boards (made of extruded and foam polystyrene, foam polyurethane, rock wool, cork, etc.) directly on the render, concrete and concrete blocks.

Mixed with water, **Mapetherm AR1** becomes an easily workable thixotropic mortar that can be applied on vertical surfaces without sagging and without letting large size insulating panels slip.

To bond insulating panels, apply **Mapetherm AR1** directly on the back side of the panels with a notched trowel. Either cover the panel completely with the product or spot bond. To smooth insulating panels, wait at least 24 hours after their installation then apply a uniform coat of **Mapetherm AR1**. Insert the **Fibreglass Mesh** and squeeze it with a flat trowel into the fresh mixture.

### Consumption

- bonding insulation panels: 3.0-4.0 kg/m<sup>2</sup>;
- total bonding of insulation panels with notched trowel n° 10: 4.5-5.5 kg/m<sup>2</sup>;
- smoothing compound: 1.3-1.5 kg/m<sup>2</sup>.

### Packaging

25 kg bags.





New

**Mapetherm Ba4**  
**Mapetherm Ba6**  
**Mapetherm Ba8**  
**Mapetherm Ba10**



**Natural aluminium support profiles with drip channels.**

Aluminium profiles used as a starting point when installing **Mapetherm** thermal insulation systems. Place lengths of **Mapetherm Ba** in position, using a spirit level to make sure they are perfectly level and at the right height. Even out irregular surfaces, or use spacers to form a flat surface. **Mapetherm Ba** profiles must be fixed in place using expansion studs, such as **Mapetherm FIX B**.

**Packaging**

- **Mapetherm Ba 4:** length 2.5 m, in boxes with 20 pieces;
- **Mapetherm Ba 6:** length 2.5 m, in boxes with 20 pieces;
- **Mapetherm Ba 8:** length 2.5 m, in boxes with 20 pieces;
- **Mapetherm Ba 10:** length 2.5 m, in boxes with 20 pieces.

New

**Mapetherm XPS 4**  
**Mapetherm XPS 5**  
**Mapetherm XPS 6**  
**Mapetherm XPS 8**  
**Mapetherm XPS 10**



**Extruded polystyrene insulating panels used in thermal insulation systems, available in thicknesses of 4, 5, 6, 8 and 10 cm.**

Extruded polystyrene insulating panels with no surface skin, has a rough surface to help adhesive or smoothing and levelling compound to bond to the surface.

**Mapetherm XPS** is a rigid panel with square corners and no support frame, available in the following sizes:

- Mapetherm XPS 4:** 1,250x600x40 mm;
- Mapetherm XPS 5:** 1,250x600x50 mm;
- Mapetherm XPS 6:** 1,250x600x60 mm;
- Mapetherm XPS 8:** 1,250x600x80 mm;
- Mapetherm XPS 10:** 1,250x600x100 mm.

**Mapetherm XPS** panels must be bonded to the substrate using **Mapetherm AR1** one component cementitious adhesive in powder form, which is then mixed with water when required (please refer to the Technical Data Sheet for further instructions).

Use **Adesilex FIS13** as an alternative, a special adhesive in water dispersion which must be mixed together with cement (please refer to the Technical Data Sheet for further instructions).

The panel is bonded by spreading an even layer of adhesive over the whole surface of the panel.

To help fix the **Mapetherm XPS** panels in place (but not as an alternative to the adhesive), studs in a suitable length may also be used, such as **Mapetherm FIX 9** or **Mapetherm Fix 60, 80 or 100**.

**Packaging**

- **Mapetherm XPS 4:** 0.27 m<sup>3</sup> package, suitable for a surface area of 6.75 m<sup>2</sup>;
- **Mapetherm XPS 5:** 0.30 m<sup>3</sup> package, suitable for a surface area of 6.00 m<sup>2</sup>;
- **Mapetherm XPS 6:** 0.27 m<sup>3</sup> package, suitable for a surface area of 4.50 m<sup>2</sup>;
- **Mapetherm XPS 8:** 0.30 m<sup>3</sup> package, suitable for a surface area of 3.75 m<sup>2</sup>;
- **Mapetherm XPS 10:** 0.30 m<sup>3</sup> package, suitable for a surface area of 3.00 m<sup>2</sup>.



Hotel Polus Palace - Göd - Hungary  
 External thermal insulation with:  
**ADESILEX FIS13, MAPETHERM AR1**

New

**Mapetherm Glass 4**  
**Mapetherm Glass 5**  
**Mapetherm Glass 6**  
**Mapetherm Glass 8**  
**Mapetherm Glass 10**



**Glass fibre insulating panels used in thermal insulation systems, available in thicknesses of 4, 5, 6, 8 and 10 cm.** High-density, glass fibre insulating panels treated with a thermo-hardening binder, highly resistant to water.

**Mapetherm Glass** is supplied without a support frame in the following sizes:

**Mapetherm Glass 4:** 1,200x600x40 mm;  
**Mapetherm Glass 5:** 1,200x600x50 mm;  
**Mapetherm Glass 6:** 1,200x600x60 mm;  
**Mapetherm Glass 8:** 1,200x600x80 mm;  
**Mapetherm Glass 10:** 1,200x600x100 mm.

**Mapetherm Glass** panels must be bonded to the substrate using **Mapetherm AR1** one component cementitious adhesive in powder form, which is then mixed with water when required (please refer to the Technical Data Sheet for further instructions).

Use **Adesilex FIS13** as an alternative, a special adhesive in water dispersion which must be mixed together with cement (please refer to the Technical Data Sheet for further instructions).

Bonding is carried out by spreading an even layer of adhesive over the whole surface of the panels with a N° 10 notched trowel. If the substrate is not flat, the adhesive may be applied in beads or spots, as long as the adhesive is distributed over at least 40% of the surface.

To help fix the **Mapetherm Glass** panels in place (but not as an alternative to the adhesive), studs in a suitable length may also be used, such as **Mapetherm FIX 9** or **Mapetherm Fix 60, 80 or 100**.

#### Packaging

- **Mapetherm Glass 4:** 0.288 m³ package, suitable for a surface area of 7.20 m²;
- **Mapetherm Glass 5:** 0.288 m³ package, suitable for a surface area of 5.76 m²;
- **Mapetherm Glass 6:** 0.259 m³ package, suitable for a surface area of 4.32 m²;
- **Mapetherm Glass 8:** 0.288 m³ package, suitable for a surface area of 3.60 m²;
- **Mapetherm Glass 10:** 0.288 m³ package, suitable for a surface area of 3.60 m².

New

**Mapetherm Cork 4**  
**Mapetherm Cork 5**  
**Mapetherm Cork 6**  
**Mapetherm Cork 8**  
**Mapetherm Cork 10**



**Cork insulating panels used in thermal insulation systems, available in thicknesses of 4, 5, 6, 8 and 10 cm.**

Expanded natural brown cork insulating panels with no chemical binders, with a density of approximately 110/130 kg/m³.

**Mapetherm Cork** is supplied without a support frame in the following sizes:

**Mapetherm Cork 4:** 1,000x500x40 mm;  
**Mapetherm Cork 5:** 1,000x500x50 mm;  
**Mapetherm Cork 6:** 1,000x500x60 mm;  
**Mapetherm Cork 8:** 1,000x500x80 mm;  
**Mapetherm Cork 10:** 1,000x500x100 mm.

**Mapetherm Cork** panels must be bonded to the substrate using **Mapetherm AR1** one component cementitious adhesive in powder form, which is then mixed with water when required (please refer to the Technical Data Sheet for further instructions).

Use **Adesilex FIS13** as an alternative, a special adhesive in water dispersion which must be mixed together with cement (please refer to the Technical Data Sheet for further instructions).

Bonding is carried out by spreading an even layer of adhesive over the whole surface of the panels with a N° 10 notched trowel. If the substrate is not flat, the adhesive may be applied in beads or spots, as long as the adhesive is distributed over at least 40% of the surface.

To help fix the **Mapetherm Cork** panels in place (but not as an alternative to the adhesive), studs in a suitable length may also be used, such as **Mapetherm FIX 9** or **Mapetherm Fix 60, 80 or 100**.

#### Packaging

- **Mapetherm Cork 4:** 0.16 m³ packages, suitable for a surface area of 4.00 m²;
- **Mapetherm Cork 5:** 0.15 m³ package, suitable for a surface area of 3.00 m²;
- **Mapetherm Cork 6:** 0.15 m³ package, suitable for a surface area of 2.50 m²;
- **Mapetherm Cork 8:** 0.16 m³ packages, suitable for a surface area of 2.00 m²;
- **Mapetherm Cork 10:** 0.15 m³ packages, suitable for a surface area of 1.50 m².

New

**Mapetherm EPS 4**  
**Mapetherm EPS 5**  
**Mapetherm EPS 6**  
**Mapetherm EPS 8**  
**Mapetherm EPS 10**



**Extruded polystyrene insulating panels used in thermal insulation systems, available in thicknesses of 4, 5, 6, 8 and 10 cm.**

Sintered expanded polystyrene insulating panels.

**Mapetherm EPS** is a rigid panel with square corners and no support frame, available in the following sizes:

**Mapetherm EPS 4:** 1,000x500x40 mm;  
**Mapetherm EPS 5:** 1,000x500x50 mm;  
**Mapetherm EPS 6:** 1,000x500x60 mm;  
**Mapetherm EPS 8:** 1,000x500x80 mm;  
**Mapetherm EPS 10:** 1,000x500x100 mm.

**Mapetherm EPS** panels must be bonded to the substrate using **Mapetherm AR1** one component cementitious adhesive in powder form, which is then mixed with water when required (please refer to the Technical Data Sheet for further instructions).

Use **Adesilex FIS13** as an alternative, a special adhesive in water dispersion which must be mixed together with cement (please refer to the Technical Data Sheet for further instructions).

Bonding is carried out by spreading an even layer of adhesive over the whole surface of the panels with a N° 10 notched trowel. If the substrate is not flat, the adhesive may be applied in beads or spots, as long as the adhesive is distributed over at least 40% of the surface.

To help fix the **Mapetherm EPS** panels in place (but not as an alternative to the adhesive), studs in a suitable length may also be used, such as **Mapetherm FIX 9** or **Mapetherm Fix 60, 80 or 100**.

#### Packaging

- **Mapetherm EPS 4:** 0.30 m³ package, suitable for a surface area of 7.50 m²;
- **Mapetherm EPS 5:** 0.30 m³ package, suitable for a surface area of 6.00 m²;
- **Mapetherm EPS 6:** 0.30 m³ package, suitable for a surface area of 5.00 m²;
- **Mapetherm EPS 8:** 0.28 m³ package, suitable for a surface area of 3.50 m²;
- **Mapetherm EPS 10:** 0.30 m³ package, suitable for a surface area of 3.00 m².



New

## Mapetherm FIX 9



### Polypropylene studs.

One-piece studs used to hold Mapetherm XPS panels in place.

**Mapetherm FIX 9** studs are used to hold 4 cm-thick **Mapetherm XPS** panels in place. They are used together with the adhesive, but never as an alternative.

Drill a 9 mm hole in the substrate after bonding the **Mapetherm XPS** panels, and hammer a **Mapetherm FIX 9** stud into the hole.

### Packaging

boxes with 500 studs.

## Mapetherm FIX 60 Mapetherm FIX 80 Mapetherm FIX 100



### Studs for thermal insulating panels, with zinc-plated nails and plastic pressure caps.

**Mapetherm FIX** are studs with zinc-plated nails and a plastic pressure cap for excellent thermal insulation. Suitable for fixing thermal insulation panels in place.

**Mapetherm FIX 9** studs are used to hold insulating panels in place. They are used together with the adhesive, but never as an alternative.

Diameter of hole: 8 mm.

Minimum depth of hole: 45 mm.

Minimum fixing depth: 35 mm.

### Packaging

- **Mapetherm FIX 60**: length 95 mm, boxes with 100 studs;
- **Mapetherm FIX 80**: length 115 mm, boxes with 100 studs;
- **Mapetherm FIX 100**: length 135 mm, boxes with 100 studs.



### Mapetherm FIX B



#### Nylon fixing wallplug provided with hardboard screw in zinc and chromium-plated steel.

Nylon wallplug provided with a flathead, cross-slotted type hardboard screw in zinc and chromium-plated steel for fixing **Mapetherm Ba4**.

Drill the substrate after positioning **Mapetherm Ba4**, insert the **Mapetherm FIX B** nylon support by hammering it until the rim is in contact with the base profile. Screw in the steel screw until **Mapetherm Ba4** is fixed.

#### Packaging

boxes containing 100 pieces.

### Mapetherm Net



#### Glass fibre mesh resistant to alkalis, used for reinforced smoothing and levelling layers to repair façades and for Mapetherm thermal cladding systems.

This product helps the smoothing and levelling product to stick to substrates, improves its tensile strength and improves the thermal cladding system's resistance to temperature changes and abrasion.

**Mapetherm Net** has been tested according to ETAG 004 trial methods, as reported in I.T.C. N° 3500/RP/02.

**Mapetherm AR1** and **Adesilex FIS13** when applying smoothing and levelling compounds for insulating panels used in thermal insulation systems. The weave of the mesh measures 4.14 x 3.80 mm. Apply a first 2 mm-thick layer of smoothing and levelling compound on the surface. Lay the **Mapetherm Net** and then pass over the surface with a trowel to even out the product.

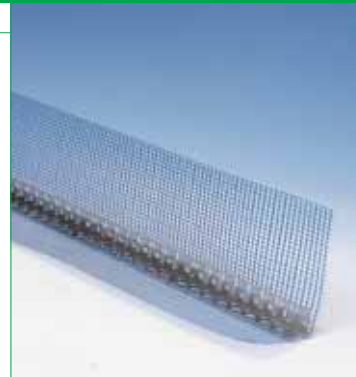
Apply a second layer of smoothing and levelling compound after 24 hours over the entire surface to make sure **Mapetherm Net** is perfectly embedded.

Overlap the edges of adjacent sheets of **Mapetherm Net** by at least 10 cm.

#### Packaging

50 m x 1 m-wide rolls.

### Mapetherm Profil



#### Aluminium angle irons incorporated with glass fibre mesh.

Aluminium elements used to finish off and reinforce the corners of panels used for thermal cladding systems.

After bonding the **Mapetherm XPS** insulating panels, apply an even layer of the smoothing and levelling product around the corners. Place the **Mapetherm Profil** on top of this layer immediately after application, and pass over with a trowel to embed the mesh and profile in the smoothing and levelling compound. Apply smoothing and levelling compound over all the surface, and lay **Mapetherm Net** around the corners so that the mesh incorporated in the **Mapetherm Profil** overlaps with the **Mapetherm Net**. Do not fix **Mapetherm Profil** in place with studs or nails.

#### Packaging

boxes of 100 profiles, each one 2.5 m long.

Multipurpose centre - Toscanella di Dozza (BO) - Italy  
Thermal insulation system with MAPETHERM SYSTEM,  
protection and decoration of façades with  
SILANCOLOR PRIMER and SILANCOLOR TONACHINO



# Protecting and decorating concrete and renders

## Antipluviol



### **Silicone water-repellent in water solution for exterior walls.**

Use **Antipluviol** for the protection of absorbent vertical and inclined surfaces including finished concrete, renders, facing bricks and natural stone from the effects of rainwater.

Treatment of the surfaces must be carried out with a single application of **Antipluviol** by brush or spray application using a low pressure hand pump when the substrates are clean and dry.

**Antipluviol** is not suitable for use on horizontal surfaces and where there is standing water or water under pressure. Application: in a single coat by brush or spray.

### **Consumption**

100-150 g/m<sup>2</sup> depending on the porosity of the substrate.

### **Packaging**

25 and 5 kg tanks.



## Antipluviol W



### **Colourless, water-repellent silane and siloxane-based impregnator in watery emulsion.**

**Antipluviol W** is a milky, silane and siloxane-based fluid in watery emulsion, characterised by its high capacity of penetrating all absorbent mineral materials used in the building industry, to make them water repellent.

**Antipluviol W** penetrates deep down and reacts with the natural humidity present in the said substrate to form a hydrophobic, water-repellent layer inside the pores and capillaries.

**Antipluviol W** forms an efficient barrier against aggressive agents present in the atmosphere, which are carried into the material by rainwater.

**Antipluviol W** also improves the self-cleaning effect of the façade and reduces the capacity of moss and mildew of adhering to the material.

**Antipluviol W** does not form a film on the surface. Therefore, the material's permeability to water vapour is not modified and the appearance of the surface remains practically unaltered.

**Antipluviol W** has excellent resistance to alkalinity and UV rays and maintains its water-repellent properties over a long period of time.

### **Consumption**

the consumption rate is heavily influenced by the absorbency of the substrate, and may vary from 0.20-1 kg/m<sup>2</sup>.

### **Packaging**

**Antipluviol W** is supplied in 10 kg plastic drums.





## Antipluviol S



### Transparent siloxane resin-based water-repellent compound.

Use **Antipluviol S** for the protection of vertical or inclined surfaces (façades) made of concrete, cementitious render, bricks and natural stone, from the effects of rainwater without altering their appearance.

**Antipluviol S** is a siloxane resin-based product in solvent, characterised by its high capacity to penetrate into the substrate.

The treatment with **Antipluviol S** does not create a skin and therefore does not substantially modify the permeability to water vapour of the treated material.

**Antipluviol S** is applied with a brush or spray onto perfectly clean and dry substrates.

**Antipluviol S** is not suitable for treating horizontal surfaces (terraces), or where water under pressure is present (basements, water reservoirs) or areas where there is standing water.

**N.B.** ADR/RID approved packaging.

### Consumption

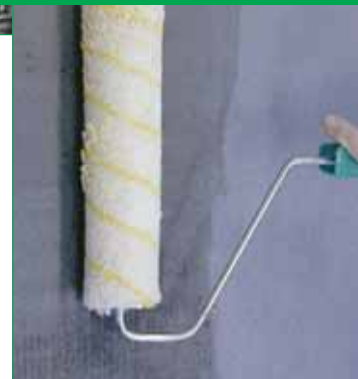
100-1000 g/m<sup>2</sup> depending on the porosity of the substrate.

### Packaging

10 kg buckets.



## Malech



### Micronized acrylic-based primer in water dispersion.

**Malech** is used as a primer for wall surfaces in general (e.g. concrete or repairs with cement mortars) before applying a coloured finishing coat of **Elastocolor Paint** or **Elastocolor Rasante**, as a regulator of the substrate absorption and as an adhesion catalyst.

**Malech** can also be used in the **Aquaflex System** cycle for the permanent encapsulation of asbestos and as a primer for the covering layers of **Aquaflex**.

**Malech** is a micronized acrylic resin-based primer in water dispersion that penetrates better than traditional water based primers.

**Malech** is odourless and solvent-free, therefore it can be applied in closed or poorly ventilated environments. Because of **Malech's** particular formula, it ensures the consolidation of powder present on surfaces that need to be treated and slows down the formation of efflorescence.

**Malech** is ready-to-use, but it can be thinned up to 50% with water in order to avoid the vitrification of substrates that are not very absorbent. **Malech** can be applied by brush, roller or spray.

### Consumption

100-150 g/m<sup>2</sup> depending on the porosity of the substrate.

### Packaging

10 and 2 kg drums.



Acaya Castle - Vernole - Italy  
Repair and waterproofing of the masonry with:  
ANTIPLUVIOL S, MAPE-ANTIQUE CC



## Elastocolor Primer



**Solvent-based fixing primer with high penetration properties for porous substrates and curing agent for repair mortars.**

**Elastocolor Primer** is used to impregnate concrete surfaces repaired with products from the **Mapegrout** line before smoothing or painting with **Elastocolor Paint**, **Elastocolor Rasante** or **Elastocolor Rasante SF**. The product penetrates into porous substrates and ensures excellent insulation and good adherence to the paint that will be applied. **Elastocolor Primer** is also used as a curing agent for repair renders and mortars and can be directly painted over with **Elastocolor Paint**. The product does not need to be removed before painting the repaired surfaces because it does not diminish the bonding strength of the protective material to the substrate. **Elastocolor Primer** is ready-to-use. If the product is used as a fixing primer before painting on a slightly porous substrate, dilute **Elastocolor Primer** with 20-30% turpentine. If it is used as a curing agent, apply **Elastocolor Primer** pure directly on the fresh surfaces after the float finishing. The product can be applied with a brush, roller or manual or compressed air pump.

### Consumption

100-150 g/m<sup>2</sup> used as a fixing primer.  
110-150 g/m<sup>2</sup> used as a curing agent.

### Packaging

10 kg drums.



## Elastocolor Paint



**Protective and decorative elastic paint based on acrylic resins in water dispersion.**

**Elastocolor Paint** is used to protect the surfaces of concrete and cement renders from aggressive agents present in the atmosphere.

Once dried, **Elastocolor Paint** forms a very elastic film, impermeable to water, but permeable to vapour, and at the same time it gives the treated structure a pleasant aesthetic appearance. Due to its elastic characteristics, **Elastocolor Paint** protects and waterproofs concrete structures and renders with hair-line cracks as it forms a bridge over them with a strong and continuous coat.

**Elastocolor Paint** is applied by brush, roller or spray in 2 or 3 coats onto perfectly clean and dry substrates which have been previously treated with **Elastocolor Primer** or **Malech** depending on the absorbency of the substrate.

**Elastocolor Paint** is available in a vast range of colours that can be obtained with the **ColorMap** colour system.

### Consumption

200-400 g/m<sup>2</sup> per coat.

### Packaging

20 kg buckets.



## Elastocolor Net



**Alkali-resistant fibreglass mesh for the reinforcement of Elastocolor Rasante and Elastocolor Rasante SF.**

Reinforcement for:

- **Elastocolor Rasante** and **Elastocolor Rasante SF** applied on interior and exterior micro-cracked cementitious substrates;
- **Elastocolor Rasante** and **Elastocolor Rasante SF** applied by cracks less than 1 mm wide.

Apply a 2-3 mm coat of **Elastocolor Rasante** or **Elastocolor Rasante SF** on the surface with a notched trowel and lay **Elastocolor Net** over the surface. Use a flat metal float to evenly spread out the product and to completely drown **Elastocolor Net**. After 24 hours, apply a second coat of **Elastocolor Rasante** or **Elastocolor Rasante SF**.

Fabric next to **Elastocolor Net** must overlap approximately 5 cm thick around the edges.

### Packaging

50 m long and 1 m wide rolls.





## Elastocolor Rasante



**One-component fibre-reinforced elastomeric filling undercoat applicable on renders and very fine fissured textured coatings as long as they are coherent and primed.**

**Elastocolor Rasante** may be applied as it is with a flat trowel or diluted 5-10% with water and applied with a brush, fur roller, or cell-like sponge.

While drying **Elastocolor Rasante** forms a type of non-woven fabric reinforcement that follows the expansion of the surfaces.

**Elastocolor Rasante** can be an undercoat setting for reinforcement nets when there are many and pronounced cracks.

**Elastocolor Rasante** can be used as an intermediate coat after having applied **Mapelast** before finishing with **Elastocolor Paint**.

**Elastocolor Rasante** can be admixed with 0.1 to 0.3 mm washed sand up to 30% by weight to increase the filling when the substrate is particularly uneven.

**Consumption**  
400-700 g/m<sup>2</sup>.

**Packaging**  
20 kg drums.



## Elastocolor Rasante SF



**Trowelable ready-to-use one-component fibre reinforced elastomeric undercoat with high filling properties and admixed with fine sand.**

Trowelable intermediate filling undercoat to be used as it is during the **Elastocolor** cycle. **Elastocolor Rasante SF** is especially suitable to be used to install a reinforcing mesh, such as **Elastocolor Net**, and improves the smoothness of the substrate and flexibility of **Elastocolor Paint** finishing.

**Elastocolor Rasante SF** is an elastomeric intermediate undercoat with high filling properties and leaves a rustic finish. It levels uneven parts of the substrate before painting with elastomeric **Elastocolor Paint**.

**Elastocolor Rasante SF** can also be used as a flexible filling finish such as a quartz based paint if applied neat or diluted 5-10% with water with a trowel, cell-like sponge roller or short-hair roller.

The product is ready-to-use and is applied with a metal trowel. The product may also be applied with a brush or roller.

To obtain different textured "orange peel" effects, **Elastocolor Rasante SF** should be applied with a cell-like sponge roller either neat or diluted 5 to 10% with water, depending on the desired effect. If more coats are needed, wait at least 24 hours between coats.

**Consumption**

– trowel: from 700 to 800 g/m<sup>2</sup> per coat;  
– roller or brush: from 300 to 500 g/m<sup>2</sup> per coat;

– spray: 0.8-1 kg/m<sup>2</sup> per coat.

The consumption is purely indicative, it depends on the roughness of the surface and type of application.

**Packaging**  
20 kg drums.



Hotel Milano - Prato - Italy  
Reparation of the façade and external thermal insulation with:  
MAPEFER, MAPEGROUT T40, ADESILEX FIS13,  
ELASTOCOLOR PAINT, SILEXCOLOR TONACHINO



## Silancolor Cleaner Plus



### Anti-mould and anti-alga cleaning product in a watery solution.

**Silancolor Cleaner Plus** is a water-based anti-mould and anti-alga solution used to clean surfaces damaged by mould and algae before painting with the **Silancolor Plus** protection system.

**Silancolor Cleaner Plus** forms the basis of the **Silancolor Plus** protection system for facades, by carrying out a deep-down, cleaning and sanitising action which removes mould and algae from surfaces damaged by such organisms.

**Silancolor Cleaner Plus**, together with the finishing system from the **Silancolor Plus** range, forms a highly-efficient protective cycle for the surface of walls against algae and fungi which have damaged the surface of walls.

**Silancolor Cleaner Plus** is a cleaning solution which penetrates deep down into the surface, to guarantee thorough cleaning of algae and fungi which have caused damage to the surface of walls.

**Silancolor Cleaner Plus** is odourless and does not contain solvents, which makes it suitable for applications in closed or poorly ventilated areas.

Mix **Silancolor Cleaner Plus** well before use, and dilute it at a ratio of 3:1 with water (5 kg of **Silancolor Cleaner Plus** in 15 kg of water).

### Consumption

the consumption is heavily influenced by the absorption of the substrate and the amount of mould and algae present on the surface. Typical consumption rate: 0.20-1 kg/m<sup>2</sup> of ready-to-use solution.

### Packaging

5 and 1 kg drums.



## Silancolor Primer



### Silicone resin based insulating primer in water dispersion.

**Silancolor Primer** is a silicone resin based primer in water dispersion with high penetration property.

**Silancolor Primer** uniformes the absorption of the substrate and acts as a bonding promoter for **Silancolor Paint**.

**Silancolor Primer** consolidates the surfaces to be treated. **Silancolor Primer** is odourless and does not contain solvents, therefore it can be applied also in closed or poorly ventilated environments.

### Consumption

100-150 g/m<sup>2</sup>, depending on the porosity of the substrate.

### Packaging

10 kg drums.





Noi condominium - Taranto - Italy  
Protection and decoration of the façade with:  
SILEXCOLOR PRIMER, SILEXCOLOR TONACHINO,  
SILEXCOLOR PAINT

## Silancolor Primer Plus



**Silane and siloxane-based anti-alga and anti-mould insulating base solution in watery emulsion.**

**Silancolor Primer Plus** is a silane and siloxane-based anti-alga and anti-mould primer in watery emulsion, used to even out the absorbency of substrates and to make them suitable for painting with finishing products from the **Silancolor Plus** range. **Silancolor Primer Plus** forms the basis of the **Silancolor Plus** system for protecting walls.

**Silancolor Primer Plus** carries out its protective action right from the start of the painting cycle, and helps to eliminate the causes of damage to walls due to the growth and spreading of alga and mould. **Silancolor Primer Plus**, together with the coloured finishes from the **Silancolor Plus** range, forms a painting cycle for internal and external surfaces which guarantees double protection. It forms a defence against micro-organisms which attack and damage the walls of buildings and guarantees long-lasting protection against chemical attack, UV rays and general damp.

**Silancolor Primer Plus** is a silane and siloxane-based anti-alga and anti-mould primer in water dispersion with high penetration properties. This product's special formulation makes the substrate highly water repellent, while maintaining its transpiration properties.

**Silancolor Primer Plus** evens out the absorbency of the substrate and promotes good bonding.

**Silancolor Primer Plus** is odourless and does not contain solvents, which makes it suitable for applications in closed or poorly ventilated areas.

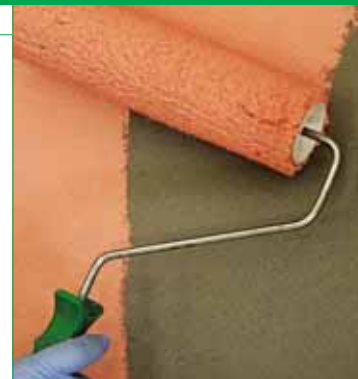
**Silancolor Primer Plus** is ready to use. Shake well before use.

**Consumption**  
0.10-0.30 kg/m<sup>2</sup>.

**Packaging**  
10 and 2 kg drums.



## Silancolor Paint



**Highly vapour permeable and water repellent silicone based paint in water dispersion for exteriors and interiors.**

**Silancolor Paint** is a silicone resin based paint that has the advantages of traditional mineral based paints as well as synthetic paints. Thanks to **Silancolor Paint**'s special formula, it makes the substrate very permeable to water vapour and is considerably water repellent.

**Silancolor Paint** adheres perfectly onto all types of traditional renders, dehumidifiers and old well bonded paints. Its water repellent nature protects the substrate from chemical aggression, does not dirty easily, highly resists washing and is durable.

**Silancolor Paint** resists excellently to alkali, washing, U.V rays and ageing without altering its properties.

**Silancolor Paint** does not only protect the surface, but has a very pleasing smooth, opaque and velvet effect to the touch.

**Silancolor Paint** is thinned with 15-25% water paying attention to mix thoroughly, possibly using a low speed mixing drill.

**Silancolor Paint** is applied using conventional methods: brush, roller, spray or airless on dried **Silancolor Primer** or **Silancolor Base Coat**. Apply two or more coats depending on the colour chosen.

**Silancolor Paint** is available in a vast range of colours that can be obtained with the **ColorMap** colour system.

**Consumption**  
200-300 g/m<sup>2</sup> for two coats.

**Packaging**  
20 and 5 kg buckets.





## Silancolor Paint Plus



**High-efficiency, silicon resin-based, high-transpiration, high water-repellence, anti-alga and anti-mould protective paint in water dispersion for internal and external applications.** For painting walls which are particularly exposed to the destructive (or deteriorative) action of algae, mould and fungi, to form a long-lasting protective coat on the substrate against such micro-organisms.

**Silancolor Paint Plus** is particularly resistant against the growth of algae, mould and fungi. It may be used to paint walls which already have a problem with such micro-organisms, after a preliminary cleaning treatment to remove them from the surface, or as a preventative measure for painting buildings in particularly damp environments, where the growth of such organisms is more prolific.

**Silancolor Paint Plus** is a silicon resin-based paint in water dispersion, and apart from the aforementioned properties, it is also highly water-repellent with good permeability to vapour, by forming a film which is permeable to vapour.

**Silancolor Paint Plus**, used in conjunction with **Silancolor Primer Plus** and, where necessary, with **Silancolor Cleaner Plus**, forms an efficient protection system, and is able to offer a long-lasting means of defence for the surface.

**Silancolor Paint Plus** bonds perfectly to all types of conventional and dehumidifying renders and to old, well-bonded paintwork. Its water-repellence properties protects the substrate from chemical attack, attracts very little dirt, is highly resistant to the washing effect of rainwater and is very hard-wearing.

**Silancolor Paint Plus** is highly resistant to alkalis, washing cycles, UV rays and ageing, and maintains its characteristics for a very long period of time.

**Silancolor Paint Plus** leaves an attractive finish with a smooth, matt surface which is velvety to the touch. It is available in a wide range of colours, which may be obtained using the **ColorMap®** automatic colouring system.

**Silancolor Paint Plus** must be diluted with 15-20% of water at the moment it is to be applied, making sure that the product is well-blended by using a low-speed drill if necessary.

**Consumption**  
0.2-0.3 kg/m<sup>2</sup>  
(corresponding to two coats of the product).

**Packaging**  
20 and 5 kg drums.



## Silancolor Tonachino

0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm



**Trowelable, highly vapour permeable and water repellent silicone resin based paste coating in water dispersion, for exterior and interior applications.**

**Silancolor Tonachino** is a silicone resin based paste coating that has the advantages of both mineral coatings (high vapour permeability) as well as synthetic coatings (uniform colour tone, adhesion to existing paints that are well bonded and a wide range of colours). Furthermore it makes the substrate highly water repellent.

**Silancolor Tonachino** is used to coat walls where both a pleasant rustic aesthetic effect and a high water repellence is required.

**Silancolor Tonachino** perfectly adheres to all types of traditional and dehumidifying renders and can also be applied on existing paints as long as they are well bonded.

Thanks to **Silancolor Tonachino's** special formula, it ensures durable protection of the substrate.

**Silancolor Tonachino** is available in a wide range of colours, created using the **ColorMap®** automatic colouring system.

**Silancolor Tonachino** is ready-to-use as long as it is well blended and after application of **Silancolor Primer** or **Silancolor Base Coat**.

**Silancolor Tonachino** is available in the following grain sizes:

**Silancolor Tonachino** 0.7 mm;  
**Silancolor Tonachino** 1.2 mm;  
**Silancolor Tonachino** 1.5 mm;  
**Silancolor Tonachino** 2.0 mm.

**Consumption**  
0.7 mm: 2.0-2.5 kg/m<sup>2</sup>;  
1.2 mm: 2.5-3.0 kg/m<sup>2</sup>;  
1.5 mm: 2.0-3.0 kg/m<sup>2</sup>;  
2.0 mm: 3.0-3.5 kg/m<sup>2</sup>.

**Packaging**  
20 kg drums.



Palazzo Zaccagna - Carrara - Italy  
Protection and decoration of the façade with:  
ELASTOCOLOR PAINT, SILANCOLOR TONACHINO

**New**

## Silancolor Base Coat



**Coloured silicon resin-based base paint in water dispersion for filling and evening out surfaces.**

**Silancolor Base Coat** is a coloured base product made from silicon resin in water dispersion, micro-granular quartz and selected aggregates which, once applied, evens out the absorbency of the substrate and promotes bonding of successive coats of paint and thick dressing materials from the Silancolor range.

**Silancolor Base Coat** is used to prepare cementitious surfaces before applying a coat of coloured finish, to even out the absorbency of the substrate and to promote a good bond.

**Silancolor Base Coat** is indispensable when applying finishing products with a "scratch-effect" surface, to avoid transparency of the underlying substrate.

**Silancolor Base Coat** may be used to even out the surface, to form a more uniform finish and to cover small imperfections.

If applied in white or in a colour similar to that of the final coat, it is particularly useful to help integration of the coloured finishing cycle, when bright colours which only partially cover the surface are used.

**Silancolor Base Coat** works in synergy with coloured finishes, to increase the duration of the protective finish and increase the water repellence of **Silancolor** finishing systems.

Surfaces treated with **Silancolor Base Coat** have a uniformly rough finish, which makes it easier to apply layered dressing materials, particularly when applied by trowel. This results in a more even distribution of the dressing material over the entire surface.

**Silancolor Base Coat** is available in a wide range of colours, created using the **ColorMap®** automatic colouring system.

### Consumption

0.4-0.5 kg/m<sup>2</sup> per coat.

Consumption is heavily influenced by the roughness of the substrate and by imperfections on the surface, and according to the application technique used.

### Packaging

20 kg drums.



## Silancolor Graffiato 1.2 mm; 1.8 mm



**Trowelable, highly vapour permeable and water repellent, medium grain, silicone resin-based paste coating in water dispersion with a fine textured effect for interior and exterior applications.**

**Silancolor Graffiato** is a silicone resin-based paste render with good filling properties suitable for interior and exterior applications, giving a fine textured effect.

**Silancolor Graffiato** gives the substrate a pleasant look, is highly water repellent and vapour permeable. It is suitable for all cementitious or lime-based renders and

**Mape-Antique** and **Poromap** dehumidifying renders, as well as for covering old paints or old coatings.

For new unpainted surfaces, apply **Silancolor Primer** (ready-to-use) or **Silancolor Base Coat** then apply **Silancolor Graffiato** after 12-24 hours.

For painted surfaces: make sure the paint is well bonded to the substrate, if not, remove loose or crumbly parts by high pressure water or by brushing then apply **Silancolor Primer** or **Silancolor Base Coat**.

**Silancolor Graffiato** is ready-to-use and is applied with a stainless steel trowel. The desired effect is obtained by immediately working the product with a plastic trowel in order to even-off the surface and obtain the final design.

**Silancolor Graffiato** is available in a wide range of colours that can be obtained with the **ColorMap®** automatic colouring system.

**Silancolor Graffiato** is available in the following grain sizes:

**Silancolor Graffiato** 1.2 mm;

**Silancolor Graffiato** 1.8 mm.

### Consumption

1.2 mm: 2.0-3.0 kg/m<sup>2</sup>;

1.8 mm: 2.5-3.5 kg/m<sup>2</sup>.

### Packaging

20 kg plastic drums.



## Silexcolor Primer



**Modified potassium silicate-based primer in water solution.**

**Silexcolor Primer** is a primer in water solution based on modified potassium silicate to be used before applying the products of the **Silexcolor** range.

**Silexcolor Primer** penetrates deeply into porous substrates without forming a film and without altering the vapour diffusion.

**Silexcolor Primer** uniformises the absorption of the substrate, ensures an excellent adhesion of the finishing coat, promoting the silication process.

After it has dried completely (at least 12 hours at +20°C), **Silexcolor Primer** can be painted over with the products of the **Silexcolor** range.

**Silexcolor Primer** does not contain organic substances and is formulated according to DIN 18363 standard.

**Silexcolor Primer** is ready-to-use, it must not be diluted with solvents or water and, after it has been mixed, it is applied in a single coat using conventional methods, brush, roller or spray.

### Consumption

100-150 g/m<sup>2</sup>, depending on the porosity of the substrate.

### Packaging

10 kg drums.





New

## Silexcolor Base Coat



**Coloured, modified potassium silicate-based primer paint in water dispersion with high filling properties for evening out surfaces, according to DIN 18363 Standards.**

**Silexcolor Base Coat** is a coloured base product made from modified potassium silicates in water dispersion, micro-granular quartz and selected aggregates which, once applied, evens out the absorbency of the substrate and promotes bonding of successive coats of paint and thick dressing materials from the Silexcolor range.

**Silexcolor Base Coat** is used to prepare cementitious surfaces or de-humidifying render made from **Mape-Antique** or **PoroMap** before applying a coat of coloured finish, to even out the absorbency of the substrate and to promote a good bond.

**Silexcolor Base Coat** is indispensable when applying finishing products with a "scratch-effect" surface, to avoid transparency of the underlying substrate. **Silexcolor Base Coat** may be used to even out the surface, to form a more uniform finish and to cover small imperfections. If applied in white or in a colour similar to that of the final coat, it is particularly useful to help integration of the coloured finishing cycle, especially when bright colours which only partially cover the surface are used.

**Silexcolor Base Coat** helps to promote a good bond of potassium silicate-based finishing products when applied on old organic resin-based dressing materials. **Silexcolor Base Coat** is available in a wide range of colours, created using the **ColorMap®** automatic colouring system.

### Consumption

0.4-0.5 kg/m<sup>2</sup> per coat.

Consumption is heavily influenced by the roughness of the substrate and by imperfections on the surface, and according to the application technique used.

### Packaging

20 kg drums.



## Silexcolor Paint



**Silicate-based, vapour-permeable protective and decorative paint system for cement- or lime-based renders in interiors and exteriors, complies with DIN 18363 Standards.**

**Silexcolor Paint** is recommended for painting porous vertical interior or exterior surfaces where protection against atmospheric agents is required (rain, frost) along with high vapour permeability.

**Silexcolor Paint** is suitable for finishing **Mape-Antique** based renders. When completely dry, **Silexcolor** creates a coating that is vapour permeable without forming a film.

It is available in 34 attractive colours.

**Silexcolor Paint** can be applied with a brush or roller, on surfaces treated beforehand with **Silexcolor Primer** or **Silexcolor Base Coat**.

**Silexcolor Paint** is available in a vast range of colours that can be obtained with the **ColorMap®** colour system.

### Consumption

350-450 g/m<sup>2</sup> for two coats.

### Packaging

20 kg buckets.



## Silexcolor Tonachino

0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm



**Trowelable modified potassium silicate-based mineral coating in paste form in interiors and exteriors, complies with DIN 18363 Standards.**

**Silexcolor Tonachino** is used to protect and decorate lime-cement renders, dehumidifying renders or as a finishing of **Mape-Antique MC**, **Mape-Antique LC** and **Mape-Antique CC**.

Once dry, **Silexcolor Tonachino** forms a single body with the substrate without altering permeability to water vapour.

**Silexcolor Tonachino** is highly effective for covering surface irregularities and at the same time it has an attractive appearance.

Apply **Silexcolor Tonachino** with a stainless steel trowel or plastic float. Take care to apply an even coat of the product, wetting the trowel or using a sponge float if needed, to smooth out the surface.

Surfaces to be treated must be thoroughly clean, sound and cured. Remove all traces of old paint.

**Silexcolor Tonachino** must always be applied after preparing the surface with **Silexcolor Primer** or **Silexcolor Base Coat**.

**Silexcolor Tonachino** is available in a vast range of colours that can be obtained with the **ColorMap®** colour system.

**Silexcolor Tonachino** is available in the following grain sizes:

**Silexcolor Tonachino** 0.7 mm;

**Silexcolor Tonachino** 1.2 mm;

**Silexcolor Tonachino** 1.5 mm;

**Silexcolor Tonachino** 2.0 mm.

### Consumption

0.7 mm: 2.0-2.5 kg/m<sup>2</sup>;

1.2 mm: 2.5-3.0 kg/m<sup>2</sup>;

1.5 mm: 2.5-3.0 kg/m<sup>2</sup>;

2.0 mm: 3.0-3.5 kg/m<sup>2</sup>.

### Packaging

20 kg buckets.





## Silexcolor Marmorino



**Trowelable, highly decorative, vapour permeable, fine finished, silicate-based mineral paste coating, for interior and exterior applications, complies with DIN 18363 Standards.** Silexcolor Marmorino is applied on interior and exterior surfaces where both high permeability to water vapour and an antique finishing, typical of marbles, are required. Being silicate based, it forms a single body with the substrate without altering permeability to water vapour and is resistant to adverse weather i.e. acid rain. Silexcolor Marmorino is the ideal finishing for Mape-Antique based dehumidifying cycles. Apply an even first coat of Silexcolor Marmorino with a stainless steel trowel. After complete drying, sand with abrasive sand paper double zero, then apply one or more coats of the same or different colour with a builders trowel, cross stroking. Sand with fine abrasive sand paper and polish the surface with a stainless steel trowel. A protective granulated finishing (with Silexcolor Tonachino) gives an "encausto" effect. Silexcolor Marmorino is applied on substrates that must be clean, cured, dry, and free of old paint, and must have been prepared beforehand with Silexcolor Primer. Silexcolor Marmorino is available in a vast range of colours that can be obtained with the ColorMap® colour system.

**Consumption**  
0.8-1.0 kg/m².

**Packaging**  
20 and 5 kg buckets.



## Silexcolor Graffiato

1.2 mm; 1.8 mm



**Trowelable, protective, decorative, vapour permeable, medium grain, silicate-based mineral paste coating with a fine textured effect for interior and exterior applications, complies with DIN 18363 Standards.**

Silexcolor Graffiato is a potassium silicate-based mineral paste render suitable for interior and exterior applications, giving a fine textured effect where high covering properties are required to cover substrate unevenness. Silexcolor Graffiato gives the substrate a pleasant look and excellent transpiration. It is suitable for decorating all cementitious or lime-based renders and Mape-Antique and Poromap dehumidifying renders.

Once dried and thanks to the silication process, Silexcolor Graffiato forms a single body with the substrate, covering the whole surface without the formation of a surface film and maintaining the same vapour permeability of the substrate. For new unpainted surfaces, apply Silexcolor Primer (ready-to-use) or Silexcolor Base Coat then apply Silexcolor Graffiato after 12-24 hours. For painted surfaces, first remove the old paint or existing coating and then apply Silexcolor Primer or Silexcolor Base Coat.

Silexcolor Graffiato is ready-to-use and is applied with a stainless steel trowel. The desired effect is obtained by immediately working the product with a plastic trowel in order to even-off the surface and obtain the final design.

Silexcolor Graffiato is available in a wide range of colours that can be obtained with the ColorMap® automatic colouring system.

Silexcolor Graffiato is available in the following grain sizes:

**Silexcolor Graffiato 1.2 mm;**  
**Silexcolor Graffiato 1.8 mm.**

**Consumption**  
1.2 mm: 2.0-3.0 kg/m²;  
1.8 mm: 2.5-3.5 kg/m².

**Packaging**  
20 kg plastic drums.



Hotel Cala Buguto - Custonaci - Trapani  
Protection and decoration of the façade with:  
SILEXCOLOR PRIMER, SILEXCOLOR TONACHINO



New

## Quarzolite Paint



**Acrylic resin in water dispersion and super-fine quartz-based paint used for protecting and decorating internal and external surfaces.**

**Quarzolite Paint** is a paint for internal and external walls, made up of acrylic resin in water dispersion and super-fine quartz.

**Quarzolite Paint** is resistant to all climatic conditions and the aggressive attack of smog, salt and sunlight, and provides a long-lasting protective coat for the substrate.

**Quarzolite Paint** bonds perfectly to all types of renders and to existing paintwork if well-bonded and sound and to gypsum in interiors, after application of **Malech** or **Quarzolite Base Coat**.

**Quarzolite Paint** protects the substrate and gives it a uniform, attractive appearance with a slightly rough finish. It is available in a wide range of colours which may be obtained with the **ColorMap®** automatic colouring system.

### Consumption

0.3-0.4 kg/m<sup>2</sup> (corresponding to two coats of the product).

### Packaging

20 and 5 kg plastic drums.



## Quarzolite Base Coat



**Coloured acrylic resin-based base paint in water dispersion for filling and evening out surfaces.**

**Quarzolite Base Coat** is a coloured base product made from acrylic resin in water dispersion, micro-granular quartz and selected aggregates which, once applied, evens out the absorbency of the substrate and promotes bonding of successive coats of paint and thick dressing materials from the **Quarzolite** range.

**Quarzolite Base Coat** is used to prepare cementitious surfaces before applying a coat of coloured finish, to even out the absorbency of the substrate and to promote a good bond.

**Quarzolite Base Coat** may be used to even out the surface, to form a more uniform finish and to cover small imperfections.

If applied in white or in a colour similar to that of the final coat, it is particularly useful to help integration of the coloured finishing cycle, when bright colours which only partially cover the surface are used.

Surfaces treated with **Quarzolite Base Coat** have a uniformly rough finish, which makes it easier to apply layered dressing materials, particularly when applied by trowel. This results in a more even distribution of the dressing material over the entire surface.

**Quarzolite Base Coat** is available in a wide range of colours, created using the **ColorMap®** automatic colouring system.

### Consumption

0.4-0.5 kg/m<sup>2</sup> per coat.  
Consumption is heavily influenced by the roughness of the substrate and by imperfections on the surface, and according to the application technique used.

### Packaging

20 kg drums.



*Villa in Marsala - Italy*

*Protection and decoration of the façades with:  
MAPE-ANTIQUE RINZAFFO, MAPE-ANTIQUE MC,  
SILEXCOLOR PRIMER, SILEXCOLOR TONACHINO*



## Quarzolite Graffiato 1.2 mm; 1.8 mm



**Plastic wall coating with a scratched-effect finish, for protecting and decorating external and internal surfaces, applied by trowel.**

**Quarzolite Graffiato** is used to obtain a continuous coating on walls with a scratched-effect finish. It is made up of acrylic resin dispersed in water, and may be applied both internally and externally. **Quarzolite Graffiato** gives an attractive finish to the surface, good water repellence and is resistant to all aggressive climatic conditions, such as smog, sunlight, saltwater, etc.

**Quarzolite Graffiato** bonds perfectly to all types of render and may also be applied on old, well-attached paintwork after application of **Malech** or **Quarzolite Base Coat**.

**Quarzolite Graffiato** is ready to use and is applied using a stainless steel float. Immediately after application the product must be worked using a plastic float to even out the surface and to get the final result required.

**Quarzolite Graffiato** is available in a wide range of colours, created using the **ColorMap®** automatic colouring system.

**Quarzolite Graffiato** is available in the following grain sizes:

**Quarzolite Graffiato** 1.2 mm;  
**Quarzolite Graffiato** 1.8 mm.

### Consumption

1.2 mm: 2.0-3.0 kg/m<sup>2</sup>;  
1.8 mm: 2.5-3.5 kg/m<sup>2</sup>.

### Packaging

20 kg drums.



## Quarzolite Tonachino

0.7 mm; 1.2 mm; 1.5 mm; 2.0 mm



**Plastic wall coating, for protecting and decorating external and internal surfaces, applied by trowel.**

**Quarzolite Tonachino** is a flexible, single-spread wall-coating with a rustic finish, made from acrylic resin dispersed in water, selected filler material, quartz and light-resistant pigments.

**Quarzolite Tonachino** is resistant to all climatic conditions and the aggressive attack of smog, salt and sunlight. It has good water-repellent properties and excellent breathability.

**Quarzolite Tonachino** bonds perfectly to all types of traditional renders and to old, well-bonded paintwork.

**Quarzolite Tonachino** protects the substrate and gives it a uniform, attractive appearance with an attractive rustic finish. It is available in a wide range of colours which may be obtained with the **ColorMap®** automatic colouring system.

**Quarzolite Tonachino** is also suitable for internal use on gypsum or old painted surfaces if well-bonded and sound.

**Quarzolite Tonachino** is ready-to-use as well as it is well blended and after application of **Malech** or **Quarzolite Base Coat**.

**Quarzolite Tonachino** is available in the following grain sizes:

**Quarzolite Tonachino** 0.7 mm;  
**Quarzolite Tonachino** 1.2 mm;  
**Quarzolite Tonachino** 1.5 mm;  
**Quarzolite Tonachino** 2.0 mm.

### Consumption

0.7 mm: 2.0-2.5 kg/m<sup>2</sup>;  
1.2 mm: 2.5-3.0 kg/m<sup>2</sup>;  
1.5 mm: 2.5-3.0 kg/m<sup>2</sup>;  
2.0 mm: 3.0-3.5 kg/m<sup>2</sup>.

### Packaging

20 kg drums.



## Colorite Performance



**Acrylic resin-based paint in water dispersion for protecting and decorating external and internal surfaces.**

**Colorite Performance** is a paint for internal and external walls, made up of saponifiable, pure acrylic resin in water dispersion.

**Colorite Performance** resistant to all climatic conditions and the aggressive attack of smog, salt and sunlight, and provides a long-lasting protective coat for the substrate.

**Colorite Performance** bonds perfectly to all types of renders and to old, well-bonded paintwork.

**Colorite Performance** is also suitable for internal use on gypsum or old painted surfaces if well-bonded and sound, after a treatment with **Malech**.

**Colorite Performance** protects the substrate and gives it a uniform, attractive appearance with a semi-lucid, silky finish. It is available in a wide range of colours which may be obtained with the **ColorMap®** automatic colour system.

### Consumption

0.3- 0.4 kg/m<sup>2</sup> (refers to two coats of the product).

### Packaging

20 kg plastic drums.





## Colorite Beton



**Pure acrylic resin-based semi-transparent paint in water dispersion for protecting concrete, reinforced concrete and cementitious surfaces.**

**Colorite Beton** is a semi-transparent paint for external walls, made up of saponifiable, pure acrylic resin in water dispersion.

**Colorite Beton** is used to protect cementitious substrates against damage caused by CO<sub>2</sub> (carbonation) and SO<sub>2</sub>.

**Colorite Beton** is resistant to all climatic conditions and the aggressive attack of smog, salt and sunlight, and provides a long-lasting protective coat for the substrate.

**Colorite Beton** protects the surface, and has an attractive semi-lucid finish and evens out the colour without hiding the surface structure.

**Colorite Beton** is available in a wide range of colours. Further colours may also be created according to individual samples by using the **ColorMap** automatic colouring system.

### Consumption

0.25-0.3 kg/m<sup>2</sup> (refers to two coats of the product).

### Packaging

20 kg plastic drums.



## Mapecoat W



**Epoxy paint in water dispersion for the protection of cementitious substrates.**

**Mapecoat W** is recommended for painting concrete surfaces subject to weak chemical aggression and light traffic.

**Mapecoat W** is especially recommended for surfaces with special cleaning requirements in kitchens, cafeterias, hospitals, tanks for water and slightly aggressive liquids, and floors subject to foot traffic.

**Mapecoat W** is a two-component epoxy paint to be carefully mixed before using until completely homogeneous.

**Mapecoat W** is easily applied with a brush, roller or airless spray on substrates that are thoroughly clean and sound, even if slightly damp.

**Mapecoat W** should be applied in two coats, usually without the need of a primer.

### Consumption

250-300 g/m<sup>2</sup>.

### Packaging

10 kg (A+B) and 20 kg (A+B) drums.



## Mapecoat T



**Two-component epoxy-acrylic paint in water dispersion for the protection of cementitious substrates.**

**Mapecoat T** is used as a lining for concrete surfaces or cement-based renders inside tunnels for the protection of vertical walls from the aggression of chemical agents.

**Mapecoat T** is solvent-free and odourless, therefore suitable for linings also in closed or poorly ventilated areas. After drying,

**Mapecoat T** film gives the surfaces a semi-gloss, smooth appearance and increases the brightness of artificially lit areas.

**Mapecoat T** can be applied on slightly damp surfaces as long as they are well cured and shrinkage-free.

### Consumption

350-450 g/m<sup>2</sup> (reference is made to two coats of the product).

### Packaging

20 kg units (A+B).



## Mapecoat I 24



### Epoxy paint for acid-resistant coating of concrete surfaces.

**Mapecoat I 24** may be used for concrete floors, storage tanks and flumes which come into contact with aggressive chemicals, such as acids, leaching agents and hydrocarbons.

**Mapecoat I 24** is a two-component epoxy paint. Prior to use, the components must be thoroughly mixed until complete homogeneity is obtained.

It's characterized by a low viscosity, **Mapecoat I 24** can be applied easily on perfectly clean, sound and dry substrates by brush, roller or spray.

After the completion of the cross-linking, **Mapecoat I 24** forms a waterproof and vapourproof film.

**Mapecoat I 24** is available in white, grey and neutral. The neutral version may be coloured using **Mapecolor Paste** during the preparation phase. Each 5 kg pack of **Mapecoat I 24** requires 0.7 kg of **Mapecolor Paste**.

### Consumption

400-600 g/m<sup>2</sup> per coat, depending on the type of substrate.

### Packaging

5 kg (A+B).



## Mapecoat DW 25



### Two-component, epoxy paint to form an acid resistant and non-toxic finish on concrete surfaces used for containing drinking water.

**Mapecoat DW 25** is used to protect floors in the foodstuffs industry and areas used for the production or processing of foodstuffs, concrete tanks and channels which come into contact with slightly aggressive chemical products and basins for storing drinking water. According to transfer tests contained in the Ministerial Decree 06-04-2004 No. 5, **Mapecoat DW 25** may be used in fixed water plants used for the capitation, treatment, adduction and treatment of water for human consumption.

**Mapecoat DW 25** is a two-component, epoxy paint which must be carefully mixed together before use until the two components are completely homogenous. **Mapecoat DW 25** is characterised by its low viscosity, and is easy to apply using a brush, a roller or by spray on substrates which are perfectly clean, solid and dry. Once complete curing has taken place, **Mapecoat DW 25** forms a waterproof and vapour-proof film which is also resistant to freezing, and leaves an attractive finish on the treated surface.

### Consumption

400-600 g/m<sup>2</sup> per coat.

### Packaging

5 kg (A + B).



## Duresil EB



### Bituminous epoxy paint for acid-resistant protection of concrete and steel surfaces.

Use **Duresil EB** to coat structures that are below ground or to be permanently immersed in water, such as concrete and steel piles, sewers, purification plants etc.

**Duresil EB** is a two-component paint formulated from special asphalt polymers and epoxy resins. Add part B to part A and mix thoroughly.

Apply **Duresil EB** by brush or spray onto perfectly clean and sound substrates. After final hardening, **Duresil EB** forms a completely waterproof and vapourproof protective coating that is resistant to diluted acids and alkali, mineral oils, detergents, waste water, etc.

### Consumption

400-450 g/m<sup>2</sup> per coat.

### Packaging

10 kg (A+B).



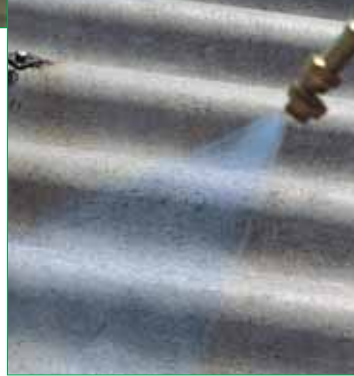
Municipal stadium - Mediglia - Italy  
Waterproofing and decoration of the flight of stairs with:  
EPORIP, MAPELASTIC, MAPEFINISH,  
ELASTOCOLOR PAINT, MAPECOAT I24



# Asbestos cement treatment

## ASBESTOS CEMENT TREATMENT

### Vinavil 03V



#### Temporary encapsulation of asbestos cement panels.

Use **Vinavil 03V** for treating flat or corrugated asbestos-cement panels to provide temporary encapsulation before removal.

**Vinavil 03V** is a vinylversatate emulsion for fixing asbestos fibers to prevent their dispersion into the air thereby causing a health hazard and environmental pollution.

**Vinavil 03V** has been certified as effective by the Research Institute for the study of biological effects of inhaled particles at the University of Milan - Institute of Occupational Medicine. **Vinavil 03V** is suitable to be used as a temporary encapsulation.

**Vinavil 03V** must be applied by roller, brush, low pressure hand pump or "airless" spray in such a way as to avoid the dispersion of fibers in the air.

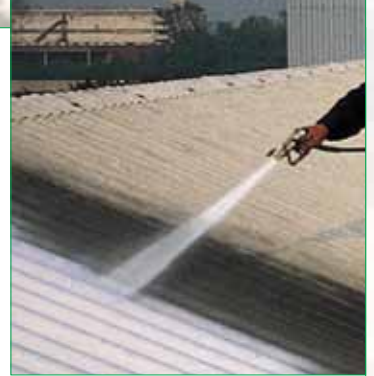
Once **Vinavil 03V** has dried, the asbestos-cement panels can be removed.

**Consumption**  
300-400 g/m<sup>2</sup>.

**Packaging**  
25-10 and 5 kg drums.



### Aquaflex System



#### Permanent encapsulation of asbestos cement.

Use **Aquaflex System** cycle for the permanent encapsulation of type A (external view), B (internal view) and C (no view, before confinement) in compliance with the August 20, 1999 Italian Ministerial Decree, of asbestos cement structures exposed to atmospheric agents, therefore subject to progressive degradation, with emerging and release of asbestos fibre. The system is made up of two products of certified quality by authorised laboratories:

- **Primer for Aquaflex:**

ready-to-use synthetic resin in solvent solution based compound that can penetrate into the degraded material binding the fibres to each other and to the cement matrix. It forms the anchorage base for the next encapsulation layer.

- **Aquaflex:**

it is a one-component light grey elastomeric resin, in water dispersion based encapsulating coating. As prescribed by August 20, 1999 Ministerial Decree, the product must be applied in two contrasting coloured coats, because over time the appearance of the colour of the first coat indicates the need to carry out a new encapsulation cycle. The product is ready-to-use, but to make application easier, it can be diluted with 3% water by weight.

The **Aquaflex System** is classified as a class 1 product according to fire resistance regulations (UNI 8457-9174).

**Consumption**

- **Primer for Aquaflex:** 160 g/m<sup>2</sup> (wet) per coat;
- **Aquaflex:** 300-450 g/m<sup>2</sup> (wet) per coat.

**Packaging**

- **Primer for Aquaflex:** 5 kg ADR/RID approved packaging;
- **Aquaflex:** 25-10-5 kg drums.



### WallGard Graffiti Barrier



#### Reversible graffiti-resistant protective barrier for all surfaces.

**WallGard Graffiti Barrier** is recommended for protecting marble, granite or natural stone facings against graffiti drawn with spray-paint, crayons, markers, etc.

**WallGard Graffiti Barrier** is also recommended for protecting cement-based facings.

After **WallGard Graffiti Barrier** has been applied, it forms a film that covers surface pores without affecting vapour permeability, creating a repellent barrier against oils and water that prevents graffiti from penetrating deeply.

**WallGard Graffiti Barrier** does not alter the appearance of the surface.

**WallGard Graffiti Barrier** can be applied with a brush, roller or spray on surfaces that are thoroughly clean and sound, even when slightly damp.

#### Consumption

30-150 g/m<sup>2</sup>.

#### Packaging

5 and 20 kg buckets.



### WallGard Graffiti Remover Gel



#### Gel detergent for graffiti-damaged surfaces.

**WallGard Graffiti Remover Gel** is recommended for all surfaces not previously treated with graffiti-repellent protection against conventional spray-paints.

**WallGard Graffiti Remover Gel** has a gelatinous consistency and contains harmless biodegradable solvents.

After **WallGard Graffiti Remover Gel** has been applied and let stand for 5 to 10 minutes, it removes all types of graffiti simply by spraying with a high pressure cleaner. In areas where using water under pressure is not possible, **WallGard Graffiti**

**Remover Gel** can be removed easily with running water and a hard bristled brush.

**WallGard Graffiti Remover Gel** can be brushed on without any prior surface preparation.

#### Consumption

100-200 g/m<sup>2</sup> per coat, depending on the roughness of the surface.

#### Packaging

5 kg buckets.



War memorial - Milan - Italy  
Anti-graffiti treatment with:  
WALLGARD GRAFFITI BARRIER,  
WALLGARD GRAFFITI REMOVER GEL



# Anchoring

## Mapegrout SV



**Fast-setting and hardening, controlled-shrinkage easy flow mortar for repairing concrete and fastening drains, manhole covers and roadwork fittings in place.**

**Mapegrout SV** is used for repairing highly-deteriorated concrete structures, by pouring the product into formworks positioned around the said structure. It may also be used for repairing floors for industrial use, and for construction works on roads and in airports which need to be reopened to traffic quickly.

Thanks to its short setting time, **Mapegrout SV** is particularly suitable for quickly fixing inspection wells, manhole covers and drain covers in place.

Made up of cementitious binders and special additives, **Mapegrout SV** is prepared by blending the contents of one 25 kg bag of the product with 3.0-3.25 l of water, according to the consistency required.

Once prepared, the mortar is poured into the areas to be filled or into the formworks. With **Mapegrout SV**, repair works or fills of up to 50 mm in thickness may be carried out.

If the layer to be installed is thicker than 50 mm, we recommend adding 40% of **Gravel 6-10**, and to blend the mix with approximately 3.5 l of water.

Areas repaired with **Mapegrout SV** may be opened to traffic approximately 2 hours after pouring, at a temperature of +20°C.

**Mapegrout SV** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Colours

available in grey and black.

### Consumption

- applied neat: 20 kg/m<sup>2</sup> per cm of thickness;
- used with 40% of gravel in the mix: 14.5 kg/m<sup>2</sup> per cm of thickness (5.7 kg/m<sup>2</sup> of **Gravel 6-10**).

### Packaging

25 kg bags.



## Mapegrout SV T



**Quick-setting, shrinkage-controlled, thixotropic mortar for repairing concrete, fixing drains, manholes and urban fixtures.**

**Mapegrout SV T** is used for repairing highly deteriorated in-situ concrete elements, both vertical and horizontal, without the use of formwork. It may also be used for repairing industrial floors, and for construction work on roads and in airports which need to be reopened to traffic quickly. The rapid hardening properties of **Mapegrout SV T** are particularly suitable for reinstating, inspection wells, manholes and drain covers. Containing cementitious binders, selected inert materials and special additives, **Mapegrout SV T** is prepared by blending the contents of one 25 kg bag of the product with 3.1-3.4 litres of water.

After preparation, **Mapegrout SV T** may be applied by trowel for repairs up to 50 mm thick. **Mapegrout SV T** may be opened to traffic approximately 2 hours after placing, at a temperature of +23°C.

**Mapegrout SV T** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Colours

available in grey and black.

### Consumption

20 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.





## Mapecore



### High-flow shrink-free grout for anchors.

**Mapecore** is used to anchor machinery, bolts, precast metallic structures, turbines, machine tools, etc into concrete. It is also recommended for filling rigid joints between concrete elements and for underpinning.

**Mapecore** has high mechanical strength at early ages (24 hours) and high adhesion to steel and concrete.

**Mapecore** is formulated from cement binders, graded aggregate and special additives. The mixture is prepared by mixing a 25 kg bag of **Mapecore** with 3.5-3.75 l of clean water, depending on the desired consistency. The mortar obtained is poured into the foundations, which must have been thoroughly soaked with water beforehand, taking care to allow air to escape to prevent air-bubbles.

For filling large volumes, the addition of **Gravel 6-10** is recommended.

**Mapecore** meets the minimum requirements of EN 1504-6.

### Consumption

1.95 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

25 kg bags.



## Mapecore R



### Expansive, quick-setting fluid mortar for fastening purposes.

**Mapecore R** is used to quickly fasten bolts, tie-rods, prefabricated framework, turbines machine tools, etc. into concrete machine bases. It is also suitable for filling rigid joints between concrete elements and below walls.

**Mapecore R** is characterised by its high mechanical strength even after short curing times (24 hours) and its high bond to steel and to concrete.

**Mapecore R** is made up of cementitious binders, selected inert materials and special admixes. It is prepared by mixing one 25 kg sack of **Mapecore R** with 4.25-4.5 litres of clean water, dependent on the consistency required. The mortar is applied by casting into the foundations which must be previously saturated with water. Make sure that all air is removed to avoid the entrapment of air bubbles. To fill large spaces, we recommend adding.

**Mapecore R** meets the minimum requirements of EN 1504-6.

### Consumption

1.95 kg/dm<sup>3</sup> of cavities to be filled.

### Packaging

25 kg bags.





## Planigrout 300



**Fluid three-component epoxy mortar for the reparation of damaged concrete structures, precision fastening and reinforcement of industrial floorings.**

**Planigrout 300** is used for repairing damaged concrete structures, for example overhead and bridge-crane runways in industries and shipyards. More in general, for evening-out concrete surfaces in areas that are difficult to reach. Thanks to the fact that **Planigrout 300** hardens without shrinking, the product can be used as a mortar for precision fastening.

**Planigrout 300** can also be used for preparing industrial floorings with very high mechanical strength, such as workshops, garages and warehouses subject to intense rubber wheel trolley traffic.

First mix part A with part B, then, after adding part C, remix until a homogeneous lump-free mixture is obtained.

### Consumption

2 kg/m<sup>2</sup> per mm of thickness.

### Packaging

30.5 kg units (A+B+C):

- part A: 4 kg
- part B: 1.5 kg
- part C: 25 kg

12.2 kg units (A+B+C):

- part A: 1.6 kg
- part B: 0.6 kg
- part C: 10 kg



## Stabilcem T



**One-component pre-blended thixotropic mortar with controlled shrinkage for anchoring, by injection, of tie rods and bolts in all types of grounds.**

Use **Stabilcem T** for anchoring tie rods of any length in tunnels, also in the presence of water and/or fractured and unstable rock masses, for anchoring reinforcement steel rods, for filling cavities between rock and concrete elements in tunnels and for sealing rigid structural joints in precast structures.

After mixing with water **Stabilcem T** acquires such a thixotropic consistency that it can be easily applied by injection on vertical, inclined or above sections without yielding or scraps.

Thanks to its rheological properties and to the absence of bleeding, **Stabilcem T** can penetrate through morphologically difficult grounds, completely filling very limited spaces.

**Stabilcem T** hardens without shrinkage and thanks to its remarkable bonding to rock, concrete, and steel, it is an effective means for anchoring bolts and rods during consolidation, even if they undergo considerable stress.

### Consumption

approximately 1.75 kg/dm<sup>3</sup> of cavity to be filled.

### Packaging

25 kg bags.



# Rapid fixing

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## Lampocem



### **Ready-to-use shrinkage-free hydraulic binder with rapid setting and hardening.**

Use **Lampocem** for all types of rapid fixing on both vertical and horizontal concrete and masonry surfaces, for fixing corbels, pipelines, sanitary ware, hangers, and for securing timber and metal grounds.

**Lampocem** has a very rapid setting time (about 3 minutes at +20°C). Mixed with water, **Lampocem** becomes a paste with a plastic-thixotropic consistency, easy to apply, even on vertical surfaces, without running and no shuttering needed.

**Lampocem** is a pre-blended powdered binder composed of highly resistant cements and special additives. While stirring pour 1 kg **Lampocem** into a container holding 0.20-0.21 l of water, and hand mix using a trowel until a smooth, lump-free paste is obtained. The mixing-ratio by volume is 4 parts **Lampocem** to 1 part water. Quickly apply **Lampocem** with a flat trowel.

### **Consumption**

1.8 kg/dm<sup>3</sup> of cavity to be filled.

### **Packaging**

25 kg bags and boxes containing 4 bags each of 5 kg.





## Mapegrout SV



**Fast-setting hand hardening, controlled-shrinkage easy flow mortar for repairing concrete and fastening drains, manhole covers and roadwork fittings in place.**

**Mapegrout SV** is used for repairing highly-deteriorated concrete structures, by pouring the product into formworks positioned around the said structure. It may also be used for repairing floors for industrial use, and for construction works on roads and in airports which need to be reopened to traffic quickly.

Thanks to its short setting time, **Mapegrout SV** is particularly suitable for quickly fixing inspection wells, manhole covers and drain covers in place.

Made up of cementitious binders and special additives, **Mapegrout SV** is prepared by blending the contents of one 25 kg bag of the product with 3.0-3.25 l of water, according to the consistency required.

Once prepared, the mortar is poured into the areas to be filled or into the formworks.

With **Mapegrout SV**, repair work or fills of up to 50 mm in thickness may be carried out.

If the layer to be installed is thicker than 50 mm, we recommend adding 40% of **Gravel 6-10** mortar gravel, and to blend the mix with approximately 3.5 l of water.

Areas repaired with **Mapegrout SV** may be opened to traffic approximately 2 hours after pouring, at a temperature of +20°C.

**Mapegrout SV** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Colours

available in grey and black.

### Consumption

- applied neat: 20 kg/m<sup>2</sup> per cm of thickness;
- used with 40% of gravel in the mix: 14.5 kg/m<sup>2</sup> per cm of thickness (5.7 kg/m<sup>2</sup> of **Gravel 6-10**).

### Packaging

25 kg bags.



## Mapegrout SV T



**Quick-setting, shrinkage-controlled, thixotropic mortar for repairing concrete, fixing drains, manholes and urban fixtures.**

**Mapegrout SV T** is used for repairing highly deteriorated in-situ concrete elements, both vertical and horizontal, without the use of formwork. It may also be used for repairing industrial floors, and for construction work on roads and in airports which need to be reopened to traffic quickly. The rapid hardening properties of **Mapegrout SV T** are particularly suitable for reinstating, inspection wells, manholes and drain covers. Containing cementitious binders, selected inert materials and special additives, **Mapegrout SV T** is prepared by blending the contents of one 25 kg bag of the product with 3.1-3.4 litres of water.

After preparation, **Mapegrout SV T** may be applied by trowel for repairs up to 50 mm thick. **Mapegrout SV T** may be opened to traffic approximately 2 hours after placing, at a temperature of +20°C.

**Mapegrout SV T** meets the minimum requirements of EN 1504-3 standards for R4-class structural mortar.

### Colours

available in grey and black.

### Consumption

20 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



# Joining PVC pipes

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## Adesilex T



### Adhesive for welding PVC pipes.

Use **Adesilex T** to bond rigid PVC pipes, including pipe fittings, gutters, siphons.

**Adesilex T** is a transparent ready-to-use adhesive with a fluid consistency.

**Adesilex T** has high bonding strength and, when dry it is resistant to cold and boiling water.

Apply **Adesilex T** onto clean and dry surfaces, extruding the product directly from the tube; after spreading the adhesive, immediately join the pipes, rotating them slightly.

### Consumption

as needed.

### Packaging

boxes of 18x1 kg;  
boxes of 100 medium tubes x 80 g;  
boxes of 50 large tubes x 160 g.



## Adesilex T Super



### Super adhesive for welding high-pressure PVC pipes.

Use **Adesilex T Super** for bonding high-pressure PVC pipes.

**Adesilex T Super** is a red, ready-to-use adhesive with a fluid consistency.

Before applying **Adesilex T Super**, thoroughly clean the parts to be bonded with a cloth and dry off any moisture.

Spread **Adesilex T Super** onto the part to be bonded and immediately join the pipes, rotating them slightly. After bonding, any excess adhesive should be removed from the tube with a cloth.

After drying **Adesilex T Super** is completely resistant to cold and boiling water.

### Consumption

as needed.

### Packaging

boxes of 18x1 kg;  
boxes of 100 medium tubes x 90 g.





# Industrial flooring



## Biblock



**Two-component, epoxy curing compound in water dispersion, with consolidating and anti-dust properties.**

**Biblock** is a transparent, epoxy impregnation product, which is particularly recommended to guarantee good curing of concrete used for laying industrial floors, access ramps, runways, canals, storage tanks, etc.

To function correctly, **Biblock** must be applied on concrete which is still fresh. Due to its capability of penetrating into absorbent materials, **Biblock** may be used as a consolidator and anti-dust treatment for cementitious screeds and mechanically weak industrial floors.

**Biblock** is supplied in kits of two pre-weighed components, which must be mixed together until they are completely homogenous and then be diluted with up to 20% of water, before application.

**Biblock** is easy to apply by brush, roller or by spraying, on either horizontal or vertical surfaces, which must be clean and free of crumbly or loose parts.

### Consumption

approximately 100-150 g/m<sup>2</sup> according to the absorbency of the substrate.

### Packaging

5 kg kits (A+B).



## Triblock P



**Three-component, epoxy-cementitious primer for damp substrates.**

**Triblock P** is used for waterproofing vertical and horizontal surfaces which are damp due to the counter-pressure of water or capillary lift, before applying parquet, PVC, linoleum, ceramics, cementitious smoothing and levelling compounds and epoxy and polyurethane coats, since their low permeability to vapour may cause blistering or detachment of the coat.

**Triblock P** is supplied in kits of 3 pre-dosed components, which must be mixed together using a low-speed drill until a smooth, lump-free paste is obtained.

After diluting with from 5 to 20% of water, apply **Triblock P** with a brush, by roller or with the airless spray system in 2 coats, to create a continuous, uniform layer without porosity.

If the surface to be treated is uneven, we recommend mixing 1 part in weight of **Triblock P** (A+B+C) with 0.5 parts in weight of **Quartz 0.25** or **Quartz 0.5**. In this case, the mortar must be applied at a maximum thickness of 1 mm. After smoothing off, if the surface is damp and subject to the counter-pressure of water, a further coat of **Triblock P** diluted with 5-10% of water must be applied.

### Consumption

- 250-300 g/m<sup>2</sup> per coat, on non-absorbent surfaces;
- 400-500 g/m<sup>2</sup> per coat, on absorbent surfaces;
- 1.5 kg/m<sup>2</sup> per mm of thickness when used as a smoothing compound.

### Packaging

5 kg units (A+B+C).





## Primer MF



**Solvent-free two-component epoxy primer to be used as an adhesion promoter for products of the Mapefloor range and to consolidate and waterproof cementitious substrates.**

**Primer MF** is a solvent-free two-component product based on epoxy resins with low viscosity and at the same time a high penetration capacity in the porosities of the substrates. Because of the total absence of solvents, **Primer MF** can be used on job-sites near inhabited environments such as apartments, schools, offices, etc.

**Primer MF** is used as a primer for absorbent concrete surfaces, as a consolidating primer of cementitious screeds with poor strength, as a primer with an anti-dust effect for concrete industrial floorings and as a waterproofer to avoid excess residual rising water in screeds and concrete floorings and in industrial floor protection cycles with products from the **Mapefloor** range. After mixing the two parts, apply several coats of **Primer MF** with a roller or brush to completely fill the pores in the substrate surface. The epoxy products from the **Mapefloor** range must be applied before **Primer MF** hardens. Any stagnation of **Primer MF** on the surface must be covered with **Quartz 1.2** or clean dry sand over the same still fresh layer. Smoothing compounds, wooden floorings, etc. can be applied over substrates treated with **Primer MF** after 12-36 hours from the application of the product, depending on the temperature.

### Consumption

- 200-300 g/m<sup>2</sup> (used as a primer);
- variable (used as a consolidating compound or as a waterproofer).

### Packaging

- 1 kg (A+B);
- 6 kg (A+B).



## Primer SN



**Two-component, solvent-free epoxy filling primer.**

**Primer SN** is a two-component, solvent-free epoxy resin-based filling primer. It is used to improve the bonding of epoxy and polyurethane **Mapefloor Systems** and is used for protecting and coating industrial floors in concrete and cement terrazzo.

**Primer SN** is characterised by its capacity to penetrate well into the substrate and may also be used on substrates which are slightly damp (maximum humidity level 4%). It is also possible to carry out a preliminary levelling out of surfaces which have a slightly rough finish, by applying a single coat of **Primer SN** blended with up to a maximum of 50% of **Quartz 0.5**. If necessary (in the presence of cracking, mixed substrates, such as concrete/ceramic or concrete/natural stone, etc.), the layer may be reinforced using **Primer SN** with **Mesh 320** glass fibre mesh, in order to evenly distribute any stresses generated in the substrate.

**Primer SN** may also be used instead of **Primer G** or **Mapeprim SP** to prime substrates, before applying **Ultratop** cementitious-based self-levelling mortar when laying wear-resistant industrial and domestic floors.

After mixing the two pre-dosed components which make up **Primer SN**, apply the product using either a metal trowel or smooth rake onto the substrate which has been correctly prepared. Immediately after application, sprinkle the fresh surface with **Quartz 0.5**, to guarantee perfect bonding of the successive **Mapefloor System** resin dressing coats, or with **Quartz 1.2**, if the floor is to be treated with **Ultratop**.

### Consumption

0.3-0.6 kg/m<sup>2</sup> per coat, according to the absorption and characteristics of the substrate.

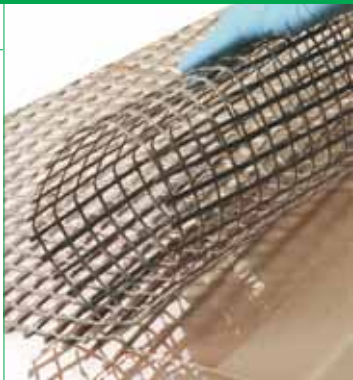
### Packaging

- 20 kg kits:
- component A = 16 kg;
- component B = 4 kg.





## Mesh 320



### Glass fibre mesh for reinforcing epoxy systems.

**Mesh 320** is a glass fibre mesh primed with special synthetic resins. It weighs 350 g/m<sup>2</sup> and the mesh size is 15.7 x 10.1 mm.

**Mesh 320** is used for reinforcing the first layer of **Primer SN** in order to evenly distribute any stresses which are generated in the substrate and prevent cracking.

### Packaging

50 m x 1 m-wide rolls.

## Mapecolor I 300 SL



### Two-component, multi-purpose, neutral-coloured epoxy treatment for industrial floors, applied at a thickness of up to 4 mm.

**Mapecolor I 300 SL** is a solvent-free, two component, epoxy filling treatment used to obtain self-levelling, multi-layer and non-slip coatings on industrial floors.

**Mapecolor I 300 SL** is particularly recommended as a floor covering in the foodstuffs, chemical and pharmaceutical industries. Its properties also include good resistance to the stresses caused by the passage of forklift trucks and rubber-wheeled vehicles in general, commonly used in shopping centres, laboratories and hospitals.

**Mapecolor I 300 SL** resists well to chemicals and abrasion and has high mechanical strength. It is used for the following:

- **Mapecolor System 31** (multilayered from 0.8 to 1.2 mm in thickness, for light to medium traffic);
- **Mapecolor System 32** (multilayered from 3 to 3.5 mm in thickness, for medium to heavy traffic);
- **Mapecolor System 33** (self-levelling from 2 to 4 mm in thickness, for medium weight traffic);
- **Mapecolor System 34** (painted layers from 0.6 to 1 mm in thickness, for lightweight traffic).

**Mapecolor I 300 SL** may be used as either a non-slip dressing or as a self-levelling, smooth dressing. In these cases, the product must be mixed with **Quartz 0.25** or **Quartz 0.5**, according to the final use and thickness required.

**Mapecolor I 300 SL** has a neutral colour. Where required, **Mapecolor Paste** colorants must be added while preparing the product. Add 0.7 kg of paste colorant (**Mapecolor Paste**) for each 8 kg package of **Mapecolor I 300 SL**.

### Consumption

- used to form a 2 mm-thick self-levelling dressing on a substrate primed with **Primer SN**: 2.0 kg/m<sup>2</sup>;
- used to form a 3 mm-thick intermediate layer in a non-slip, multi-layered dressing on a substrate primed with **Primer SN**: 0.9 kg/m<sup>2</sup>;
- used to form 1 mm-thick or 3 mm-thick layers in a non-slip, multi-layered dressing on a substrate primed with **Primer SN**: 0.6 kg/m<sup>2</sup>.

### Packaging

units of 8 kg (A+B).



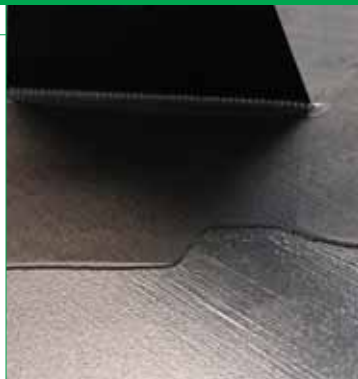
Ingram show-room - Arezzo - Italy

Repairing of flooring with:

ULTRATOP SYSTEM "natural effect"

(PRIMER SN, ULTRATOP, MAPEFLOOR FINISH 52 W)

### Mapecolor I 300 SL TRP



**Two-component, transparent epoxy finish coat with a low tendency to turn yellow, applied at a thickness of 1 mm as a finishing coat on epoxy resin systems.**

**Mapecolor I 300 SL TRP** is used as a finishing coat on internal decorative floors in civil environments subject to light pedestrian traffic, such as shops and hotel receptions.

**Mapecolor I 300 SL TRP** is impermeable and resistant to chemicals and abrasion, which also makes it suitable as a finishing coat on decorative floors in restaurants, bars, showrooms, etc.

**Mapecolor I 300 SL TRP** is a solvent-free, two-component, transparent epoxy finish coat with a low tendency to turn yellow. Apart from improving the resistance of the floor, it gives it a lens-like appearance. Once **Mapecolor I 300 SL TRP** has hardened, the surface has good resistance to alcohol and diluted alkalis, and is also easy to clean.

**Consumption**  
from 1 to 1.5 kg/m<sup>2</sup>.

**Packaging**  
18 kg kits:  
component A = 12 kg;  
component B = 6 kg.



### Mapecolor I 320 SL CONCEPT



**Self-levelling, solvent-free epoxy finish coat with a coloured granular effect, to create floors which are resistant to abrasion.**

**Mapecolor I 320 SL CONCEPT** is used to dress floors in both industrial and civil environments subject to medium-heavy loads, such as laboratories and distribution warehouses. Its attractive aesthetic appearance and excellent resistance to abrasion also make it suitable in environments with heavy pedestrian traffic, such as bars, hotel receptions, canteens, classrooms, showrooms, etc.

**Mapecolor I 320 SL CONCEPT** is a solvent-free, two-component epoxy resin-based formula.

**Mapecolor I 320 SL CONCEPT** is characterised by excellent mechanical strength, and is more resistant to abrasion than conventional epoxy-based self-levelling products.

**Mapecolor I 320 SL CONCEPT** is prepared by mixing the two components together, and is applied using a smooth trowel at a thickness of between 2 and 4 mm on substrates which must be primed before application.

The hardened surface of **Mapecolor I 320 SL CONCEPT** is very smooth and forms a continuous, flat floor which is easy to clean and sterilise.

**Mapecolor I 320 SL CONCEPT** is available in special coloured blends, which give the floor a particularly attractive appearance.

**Consumption**  
3 kg/m<sup>2</sup>.

**Packaging**  
16.8 kg kits:  
component A = 13.8 kg;  
component B = 3.0 kg.



### Mapecolor I 350 SL



**Two-component, multi-purpose, neutral-coloured, "class 1" fire-resistant epoxy treatment for coating industrial floors at a thickness of up to 4 mm.**

**Mapecolor I 350 SL** is a solvent-free, two component, "Class 1" fire-resistant epoxy filling treatment used to obtain a self-levelling, multi-layer, non-slip resin coating on industrial floors.

**Mapecolor I 350 SL** is particularly recommended as a floor covering in the foodstuffs, chemical and pharmaceutical industries. Its properties also include good resistance to the stresses caused by the passage of forklift trucks and rubber-wheeled vehicles in general in shopping centres, laboratories and hospitals.

**Mapecolor I 350 SL** has excellent chemical resistance and high strength properties, is resistant to abrasion and may be applied at a thickness of up to 4 mm.

**Mapecolor I 350 SL** may be used as either a non-slip coating or as a smooth, self-levelling coating. In these cases, the product must be mixed at a ratio of up to a maximum of 1 : 0.5 with **Quartz 0.25** or **Quartz 0.5**, according to the final use and thickness required.

**Mapecolor I 350 SL** has a neutral colour. Where required, **Mapecolor Paste** colorants may be added while preparing the product. Add 0.7 kg of **Mapecolor Paste** colorant for each 8 kg package of **Mapecolor I 350 SL**.

**Consumption**  
– as a 2 mm-thick self-levelling coating on substrates treated with **Primer SN**: 2.0 kg/m<sup>2</sup>;  
– as an intermediate layer in a 3 mm-thick, non-slip, multi-layered coating on substrates treated with **Primer SN**: 0.9 kg/m<sup>2</sup>;  
– as a 1 mm-thick or 3 mm-thick final coat in a non-slip, multi-layered coating on substrates treated with **Primer SN**: 0.6 kg/m<sup>2</sup>.

**Packaging**  
8 kg units:  
component A = 6 kg;  
component B = 2 kg.





New

## Mapecolor PU 400



**Two-component, self-levelling, neutral-coloured, highly-flexible polyurethane binder with fillers.** Mapecolor PU 400 is a two-component formulate with fillers made from polyurethane resin, used to form waterproof coating layers on concrete substrates which require high flexibility, and where good resistance to cracking is required. Thanks to these properties, Mapecolor PU 400 may be used to cover floors in multi-storey car-parks, road surfaces, bridges, walkways and general concrete covered surfaces.

Mapecolor PU 400 is also resistant to mechanical stresses, and has good crack-resistance properties, even at low temperatures (as low as  $-20^{\circ}\text{C}$ ). Prepare the product by mixing the two components which make up Mapecolor PU 400 with a low-speed drill, add Mapecolor Paste and keep mixing until a smooth, lump-free paste is obtained. While mixing, add 20-30% in weight of Quartz 0.25 to the blend prepared as described above, and mix again to form a smooth, homogenous paste. Apply Mapecolor PU 400 in an even layer using a notched trowel. We recommend passing over the surface of Mapecolor PU 400 with a bubble-breaker while it is still fresh.

**Consumption**  
from 1.5 to 2 kg/m<sup>2</sup> according to the condition of the substrate.

**Packaging**  
19.75 kg kits:  
component A = 4.75 kg;  
component B = 15 kg.

New

## Mapecolor PU 410



**Two-component, self-levelling, neutral-coloured, flexible polyurethane binder with fillers.**

Mapecolor PU 410 is a solvent-free, two-component formulate with fillers, made from medium-flexibility, low-viscosity polyurethane resin.

Because of its good crack resistance properties in concrete, even at low temperatures (as low as  $-20^{\circ}\text{C}$ ) and excellent wear resistance, Mapecolor PU 410 is an ideal coating product for multi-storey car parks and general internal and external road surfaces.

Thanks to its special formulation, Mapecolor PU 410 may be used as an intermediate wear layer in the Mapecolor Parking System, or as a flexible multi-layered or self-levelling coating layer. According to the final use of Mapecolor PU 410, it must be prepared by mixing with 30% in weight of Quartz 0.25 or Quartz 0.5.

Also, if the surface of Mapecolor PU 410 is sprinkled with quartz sand (0.1-0.5 mm or 0.3-0.9 mm), its anti-wear properties are increased and the surface has a non-slip finish.

Mapecolor PU 410 is supplied in a neutral colour. Mapecolor Paste may be added when mixing and preparing the product. 1.4 kg of Mapecolor Paste for each 18.5 kg sack of Mapecolor PU 410 is required.

### Consumption

1. As an intermediate layer in the Mapecolor Parking System: Mapecolor PU 410 + Mapecolor Paste: 1.0 kg/m<sup>2</sup>; mixed with Quartz 0.25: 0.3 kg/m<sup>2</sup>; sprinkling of 0.1-0.5 mm quartz: 4.0 kg/m<sup>2</sup>;
2. As a multi-layered, flexible, non-slip dressing layer (1.5-3 mm): Mapecolor PU 410 + Mapecolor Paste: 0.9 kg/m<sup>2</sup>; mixed with Quartz 0.5: 0.27 kg/m<sup>2</sup>; sprinkling of 0.1-0.5 mm quartz on a fresh layer: 3.0 kg/m<sup>2</sup>;
3. As a flexible, self-levelling layer (2-3 mm): Mapecolor PU 410 + Mapecolor Paste + Quartz 0.25: 4.0 kg/m<sup>2</sup>.

**Packaging**  
18.5 kg kits:  
component A = 15 kg;  
component B = 3.5 kg.

## Mapecolor CPU/MF



**Three-component, self-levelling polyurethane-cement treatment with high resistance to chemical agents, for coating industrial floors with a 3-4 mm thick layer.**

Mapecolor CPU/MF is a polyurethane-cement treatment, used to obtain self-levelling resinous coats on industrial floors. Mapecolor CPU/MF is particularly suitable for coating floors in the foodstuffs industry and in the chemicals and pharmaceuticals industries.

Thanks to its properties, it also offers good resistance to the stresses caused by the passage of forklift trucks, and rubber-wheeled vehicles in general, in shopping centres, laboratories and hospitals.

Mapecolor CPU/MF has excellent chemical resistance and high strength properties, is resistant to abrasion and may be applied at thicknesses between 3 and 4 mm after suitable preparation and priming of the substrate.

Mapecolor CPU/MF is available in grey, beige and green.

### Consumption

6 kg/m<sup>2</sup> for a 3 mm-thick self-levelling layer.

### Packaging

28.4 kg kits:  
component A = 4.2 kg;  
component B = 4.2 kg;  
component C = 20 kg.



## Mapecolor CPU/HD



**Three-component, polyurethane-cement-based mortar with high mechanical strength and high resistance to chemicals, used to finish industrial floors with a layer from 6 to 9 mm thick.**

**Mapecolor CPU/HD** is a polyurethane-cement-based formula which is ideal for finishing industrial floors subject to heavy traffic, high chemical aggression and subject to high thermal shocks.

Thanks to these properties, **Mapecolor CPU/HD** is suitable for finishing floors in the foodstuffs, chemical and pharmaceutical industries.

**Mapecolor CPU/HD** is also mechanically strong and is highly resistant to abrasion. It resists well, therefore, to the stress caused by the passage of fork-lift trucks and rubber-wheeled vehicles in industrial environments.

Once the substrate has been correctly prepared, **Mapecolor CPU/HD** is applied in a single layer from 6 to 9 mm. It is available in grey.

### Consumption

1.9 kg/m<sup>2</sup> per mm of thickness.

### Packaging

31.4 kg kits:

component A = 3.2 kg;  
component B = 3.2 kg;  
component C = 25 kg.



## Mapecolor I 500 W



**Two-component, multi-purpose, neutral-coloured epoxy treatment in water dispersion, permeable to vapour, for industrial floors.**

**Mapecolor I 500 W** is a solvent-free, two-component, epoxy filling treatment in water dispersion, which is impermeable to vapour, used to obtain self-levelling and multi-layer coatings on industrial floors.

Since it is a water-based product, **Mapecolor I 500 W** is environment-friendly and is particularly recommended as a floor covering in the foodstuffs, chemical and pharmaceutical industries. Its properties also include good resistance to the stresses caused by the passage of forklift trucks and rubber-wheeled vehicles in general, commonly used in shopping centres.

**Mapecolor I 500 W** is versatile, permeable to water vapour and is not subject to shrinkage.

**Mapecolor I 500 W** resists well to chemicals and abrasion and has high mechanical strength. It is used for the following:

- **Mapecolor System 51** (multi-layered up to 3 mm in thickness, for medium to heavy traffic);
- **Mapecolor System 52** (multi-layered up to an average of 5 mm in thickness, for heavy traffic);
- **Mapecolor System 53** (self-levelling up to an average of 4 mm in thickness, for medium to heavy traffic);

**Mapecolor I 500 W** has a neutral colour.

Where required, **Mapecolor Paste** colorants must be added while preparing the product. Add 0.7 kg of paste colorant (**Mapecolor Paste**) for each 26 kg package of **Mapecolor I 500 W**.

### Consumption

- used as smooth, self-levelling 2 mm-thick layer on a substrate primed with **Mapecolor I 600 W**: 4 kg/m<sup>2</sup>;
- used as a multi-layered, 5 mm-thick non-slip coating:

for the first layer

**Mapecolor I 500 W** 2.5 kg/m<sup>2</sup>

**Quartz 0.5** 5 kg/m<sup>2</sup>

as the second layer

**Mapecolor I 500 W** 2.5 kg/m<sup>2</sup>

**Quartz 0.5** 5 kg/m<sup>2</sup>

as the finishing layer

**Mapecolor I 500 W** 0.7 kg/m<sup>2</sup>

### Packaging

units of 26 kg:  
component A = 2 kg;  
component B = 24 kg.



## Mapecolor I 600 W



**Two-component, transparent epoxy finish in water dispersion.**

**Mapecolor I 600 W** is used both for consolidating absorbent, porous cementitious substrates and as a primer before the application of **Mapecolor I 500 W** (**Mapecolor System 53**) or as a finishing layer on **Ultratop**.

**Mapecolor I 600 W** is a two-component, transparent epoxy finish in water dispersion which has a final opaque appearance which, when applied on absorbent substrates, takes up a wet-look effect.

The two components which make up **Mapecolor I 600 W** must be mixed together using a low-speed drill with a mixer attachment, until a homogenous blend is obtained. If used as impregnating product a first coat must be prepared by diluting the product with water with the ratio from 1 : 3 to 1 : 4 (1 part product to 3-4 parts of water), according to the substrate absorption; the second coat must be diluted from 1 : 1 to 1 : 3 (1 part product with 1-3 parts of water).

The use of **Mapecolor I 600 W** as primer for **Mapecolor I 500 W** only requires application in one single coat by diluting the product with water by the ratio of 1 : 1. Wait for 3-4 hours before applying **Mapecolor I 500 W**.

**Mapecolor I 600 W** must be stirred with drill for at least 3 minutes for both kind of application after water addition.

**Mapecolor I 600 W** is applied with a medium or long-haired roller, by spraying or with an airless spray-gun.

### Consumption

- as impregnating compound: 60-100 g/m<sup>2</sup> each coat, depending on absorption;
- as primer: 300-500 g/m<sup>2</sup>, depending on absorption.

### Packaging

units of 5.9 kg (A + B).





## Mapecolor I 900



**Two-component epoxy resin, particularly recommended for the installation of floors which are resistant to acids and wear caused by the passage of heavy traffic, such as lorries and forklift trucks.**

**Mapecolor I 900** is used for the **Mapecolor System 91** (multi-layered epoxy system for thicknesses from 6 to 15 mm, for medium to heavy traffic) to create protective coatings for concrete industrial floors, car parks and garages, which are resistant to acids and the wear caused by heavy traffic.

**Mapecolor I 900** may also be used to flatten out slopes and to repair horizontal surfaces, such as concrete floor slabs, foundations, ramps, the corners of expansion joints and beam joints. After mixing the two components together, add **Quartz 1.9** (selected graded aggregates), until a uniform mix similar to damp earth is obtained. Pour the mix onto the substrate, treated beforehand with **Primer SN**, making sure that the bonding agent is still "fresh". The product may be spread out with the help of an aluminium straightedge and rakes. If the product is used as a coating for floors, it must be smoothed off with a special vibro-tamping machine while the material is still "fresh". If it used as a roughing mortar, it may be levelled off by beating it firmly with a trowel or a float.

**Mapecolor I 900** may be coloured with **Mapecolor Paste**.

### Consumption

depending on the thicknesses to be applied.

### Packaging

15 kg drums (A + B).



## Mapecolor I 910



**Two-component epoxy primer for mortar applied by trowel or as a bonding promoter for resin coatings.**

**Mapecolor I 910** may be used as either a bonding promoter for resin coating coats or as a binder when mixing mortar applied by trowel when installing industrial floors or for when levelling off irregular layers or slopes in concrete floors.

The two components which make up **Mapecolor I 910** must be mixed together using a drill fitted with a low-speed stirrer, until a homogenous blend is obtained. Once mixed, the product must be spread on uniformly using either a long-haired roller or a smooth trowel when used as a primer for resin 600 kg units (A + B). Coats, or blended with **Quartz 1.9** at a ratio of up to a maximum of 1 : 13 to obtain mortar with a consistency similar to damp earth.

### Consumption

- used as a primer: 0.3-0.5 kg/m<sup>2</sup>, according to the absorbency of the substrate;
- used for preparing mortar: depending on the thicknesses to be applied.

### Packaging

15 kg drums (A + B).



## Quartz 0.25 0.5 - 1.2 - 1.9



**Spherical, grey, alluvium quartz for the Mapecolor Systems and Triblock P.**

### Quartz 0.25

Selected, graded blend of grey, alluvium quartz with a trigonal crystalline structure and a maximum inert size of 0.25 mm. Used for self-levelling compounds in combination with **Mapecolor I 300 SL** for the **Mapecolor Systems** and with **Triblock P**.

### Quartz 0.5

Selected, graded blend of grey, alluvium quartz with a trigonal crystalline structure and a maximum inert size of 0.5 mm. Used for sprinkling purposes in combination with **Primer SN** or **Mapecolor I 300 SL** for the **Mapecolor Systems** and **Triblock P**.

### Quartz 1.2

Selected, graded blend of grey, alluvium quartz with a trigonal crystalline structure and a maximum inert size of 1.2 mm. Used for sprinkling purposes in combination with **Primer SN** or **Mapecolor I 300 SL** for the multi-layered **Mapecolor Systems**.

### Quartz 1.9

Selected, graded blend of grey-coloured, alluvial quartz with a trigonal crystalline structure and a maximum inert size of 1.9 mm. Used for manufacturing damp-earth consistency mortar in combination with **Mapecolor I 910** or **Mapecolor I 900** for the **Mapecolor 91 Systems**.

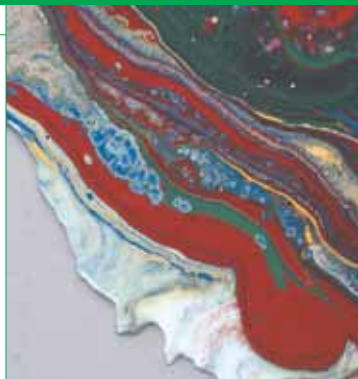
### Consumption

According to which systems they are used with. Please refer to the **Mapecolor System** and **Triblock P** Technical Data Sheets.

### Packaging

Units of 25 kg.

## Mapecolor Paste



**A system for colouring Mapefloor products.**

**Mapecolor Paste** is a range of ready-mixed colouring pastes, which are added to **Primer SN**, **Mapefloor I 300 SL**, **Mapefloor I 350 SL**, **Mapefloor I 500 W**, **Mapecoat I 620 W** and **Mapecoat I 24**.

**Mapecolor Paste** is available in 19 different colours, to satisfy the widest variety of aesthetic requirements.

Colours available:

RAL 1001	RAL 1013	RAL 1015
RAL 3009	RAL 5016	RAL 5007
RAL 5012	RAL 5024	RAL 6001
RAL 6017	RAL 6019	RAL 6021
RAL 7001	RAL 7030	RAL 7032
RAL 7034	RAL 7035	RAL 7037
RAL 7040		

### Consumption

0.7 kg for each package of **Primer SN**, **Mapefloor I 300 SL**, **Mapefloor I 350 SL**, **Mapefloor I 500 W**, **Mapecoat I 620 W** and **Mapecoat I 24**.

### Packaging

0.7 kg jars.



## Mapecoat I 620 W



**Two-component, water-based epoxy coating for concrete floors and cementitious substrates and as a finishing compound for epoxy systems, to provide an anti-dust and oil resistant finishing treatment with shiny effect.**

**Mapecoat I 620 W** is used as an anti-dust and anti-oil layer on concrete, which must be previously primed with **Triblock P** as finishing compound for **Ultratop**, or on epoxy systems.

The two components which make up **Mapecoat I 620 W** must be mixed together using a low-speed drill with a mixer attachment, until a homogenous blend is obtained. While mixing, add 10% in weight of **Mapecolor Paste** and from 10-20% of water and continue mixing until a homogenous mix is obtained. Apply in a uniform coat using a short-haired roller.

To leave the surface with a non-slip finish, add from 5 to 10% in weight of **Mapefloor Filler** to **Mapecoat I 620 W**, according to the level of non-slip effect required.

### Consumption

0.100-0.250 kg/m<sup>2</sup>, according to the absorbency of the substrate.

### Packaging

15 kg kits:  
component A = 5 kg;  
component B = 10 kg.



## Mapecoat I 24



**Epoxy paint for acid-resistant coating of concrete surfaces.**

**Mapecoat I 24** may be used for concrete floors, storage tanks and flumes which come into contact with aggressive chemicals, such as acids, leaching agents and hydrocarbons.

**Mapecoat I 24** is a two-component epoxy paint. Prior to use, the components must be thoroughly mixed until complete homogeneity is obtained.

Characterized by a low viscosity, **Mapecoat I 24** can be applied easily on perfectly clean, sound and dry substrates by brush, roller or spray.

After the completion of the cross-linking, **Mapecoat I 24** forms a waterproof and vapourproof film.

**Mapecoat I 24** is available in white, grey and neutral. The neutral version may be coloured using **Mapecolor Paste** during the preparation phase. Each 5 kg pack of **Mapecoat I 24** requires 0.7 kg of **Mapecolor Paste**.

### Consumption

400-600 g/m<sup>2</sup> per coat, depending on the type of substrate.

### Packaging

5 kg units (A+B).





## Mapecolor Finish 50



### Two-component, aliphatic, transparent, moisture curing, polyurethane finish.

**Mapecolor Finish 50** is used as a dust-repellent treatment on absorbent, porous cementitious substrates, as a finishing coat for **Ultratop** and as a finishing coat to improve the resistance of **Mapecolor System 53** installations to scuffing.

**Mapecolor Finish 50** is a solvent-free, two-component, aliphatic transparent polyurethane finish which does not turn yellow and which has a satin finish.

When the product is applied on concrete or **Ultratop**, it takes up a wet-look effect. To prepare the product, pour comp. B into the container of comp. A. After closing the container, mix the two components together by simply shaking the package for approximately one minute.

If an anti-slip finish is required on **Mapecolor Finish 50**, add 5-10% by weight of **Mapecolor Filler** while mixing slowly with a drill with a mixing attachment.

**Mapecolor Filler** is made up of super-fine aggregate which are extremely wear resistant.

With both the standard and non-slip versions, **Mapecolor Finish 50** is applied evenly with a medium or short-haired roller on concrete substrates, and with a short-haired roller, such as mohair, on **Mapecolor I 500 W** or **Ultratop**.

The product may also be sprayed on or applied using an airless spray gun.

### Consumption

- on **Mapecolor I 500 W** or **Ultratop** dressing material: 0.06-0.10 kg/m<sup>2</sup> per coat;
- on concrete floors: 0.1-0.2 kg/m<sup>2</sup> per coat, according to the absorbency.

### Packaging

5 kg kits (A + B).



## Mapecolor Finish 51



### Two-component, aliphatic, polyurethane finishing product, made up of special charges to give the product an opaque, non-slip finish.

**Mapecolor Finish 51** is used as a finishing coat to improve the resistance of **Mapecolor System 33** or **Mapecolor Parking System** installations to scuffing.

**Mapecolor Finish 51** is a two-component, aliphatic polyurethane finishing product which does not turn yellow and which has an opaque finish.

The two components which make up **Mapecolor Finish 51** must be mixed together using a low-speed drill with a mixer attachment, until a homogenous blend is obtained.

**Mapecolor Finish 51** can be coloured with 10% by weight of **Mapecolor Paste**. In this case, at least two coats are necessary.

If a non-slip finish is required, add 5-10% in weight of **Mapecolor Filler** while mixing slowly and continuously.

**Mapecolor Finish 51** is applied evenly with a short-haired roller such as mohair on resinous substrates. The product may also be sprayed on or applied using an airless spray gun.

### Consumption

0.06-0.1 kg/m<sup>2</sup> per coat.

### Packaging

units of 3.3 kg (A + B).



IP Cleaning Factory Company - Bagno - Italy  
New flooring with: PRIMER G, ULTRATOP,  
MAPEFLOOR I 300 SL, MAPECOLOR PASTE



## Mapecolor Finish 52 W



**Two-component, non-yellowing polyurethane finishing compound in water dispersion, for dust-repellent and anti-oil treatments.**

**Mapecolor Finish 52 W** is used as a dust-repellent and anti-oil finishing layer on concrete and **Ultratop**, or as a finishing layer on epoxy systems.

The main characteristic of **Mapecolor Finish 52 W** is that, if it is applied on **Ultratop** or concrete, it does not modify the appearance of the substrate and does not leave a "wet-look" finish.

The two components which make up **Mapecolor Finish 52 W** must be mixed together using a drill fitted with a low-speed stirrer, until a homogenous blend is obtained, and then applied uniformly using a short-haired roller. It is possible to add 3-5% in weight of **Mapecolor Filler** to **Mapecolor Finish 52 W** to leave the surface with a non-slip finish, according to the level of non-slip effect required.

### Consumption

0.1-0.2 kg/m<sup>2</sup> each coat according to the absorbency of the substrate.

### Packaging

5.4 kg units (A + B).



## Mapecolor Filler



**Super-fine powder charges added to obtain a non-slip finish.**

**Mapecolor Filler** is made up of super-fine powder charges which are extremely hard wearing, which are added to **Mapecolor Finish 50**, **Mapecolor Finish 51**, **Mapecolor Finish 52 W** and **Mapecolor I 620 W**.

After preparing the product required, add 3-10% in weight of **Mapecolor Filler** while mixing slowly and continuously. After mixing with **Mapecolor Filler**, the various finishes are to be applied evenly using a short-haired, mohair brush, a medium-haired brush or a long-haired brush on top of **Mapecolor System**, **Ultratop** and concrete.

### Consumption

5-10 g/m<sup>2</sup>.

### Packaging

0.3 kg jars.





## Mapecleaner ED

New



### Detergent for normal degreasing operations of floors.

**Mapecleaner ED** is a concentrated, water-soluble detergent made from a special mixture of surface-active agents which forms very little foam, used to clean all surfaces which are not damaged by the presence of water.

**Mapecleaner ED** is ideal for cleaning resin floors made using the **Mapecleaner System** inside civil, public and industrial environments. **Mapecleaner ED** may also be used to remove protective film from decorative floors made using **Ultratop**, including those mixed with **Dynastone Color** or natural aggregates inside civil environments, such as showrooms, shops, apartments, etc.

**Mapecleaner ED** is used diluted at from 1 to 3%. Apply by hand or with a cleaning machine on floors made using the **Mapecleaner System** or **Ultratop System** at least 7 days after laying (100-300 g of product in 10 litres of water). Increase the concentration according to requirements on porous or heavily soiled surfaces.

### Consumption

dependant on the amount of dirt on the surface to be cleaned.

### Packaging

10 kg cans.



## Mapecleaner Wax Remover

New



### Special multi-action de-waxing cleaner, for double-reticulation **Mapelux metallic wax**.

**Mapecleaner Wax Remover** is a special, multi-action wax-removing detergent. It produces very little foam, and may be used for deep-down cleaning and for removing any type of metallic wax. Its deep-down cleaning action breaks up the components in the wax film and quickly emulsifies all residuals and dirt.

**Mapecleaner Wax Remover** is particularly suitable for removing old layers of double-reticulation **Mapelux Lucida** and **Mapelux Opaca** metallic wax. It may also be used for deep-down cleaning and de-waxing of linoleum and/or rubber floors (in such cases, if the floors are particularly old, carry out a colour-holding test beforehand).

Use **Mapecleaner Wax Remover** diluted in water at a concentration of 5 to 10% to remove normal metallic wax (0.5-1 litre of product in 10 litres of water).

To remove double-reticulation **Mapelux Lucida** and **Mapelux Opaca** metallic wax, use **Mapecleaner Wax Remover** at a concentration of 15% (1.5 litres of product diluted in 10 litres of water). Polish using a white disk, vacuum off the dust and rinse with water.

### Consumption

dependant on the amount of dirt on the surface to be de-waxed.

### Packaging

10 kg cans.



## Mapelux Lucida



### Shiny, metal-filled, high-resistance, double-reticulation floor wax.

**Mapelux Lucida** is used inside buildings for civil use, such as shops, showrooms, apartments, offices, etc. for protecting floors made using the **Mapecleaner System** subject to particularly intense use, or to make maintenance operations of the finishing treatment on floors made using **Ultratop** easier.

**Mapelux Lucida** is a shiny, metal-filled wax characterised by its high resistance to traffic and frequent cleaning, even if strong detergents are used.

Thanks to the product's double reticulation which binds all the components, the **Mapelux Lucida** film is easy to clean and marks and stains left by traffic may be removed by a simple washing cycle.

**Mapelux Lucida** is extremely fluid and is easy and quick to spread on the surface.

**Mapelux Lucida** must be applied in two criss-cross coats, to obtain good protection of the surface.

Spread the first coat of **Mapelux Lucida** uniformly using a special waxing tool. Once the first coat has completely dried, spread the second coat at right angles to the first coat.

### Consumption

50 g/m<sup>2</sup>.

### Packaging

10 kg cans.



New

## Mapelux Opaca



### Matt, metal-filled, high-resistance, double-reticulation floor wax.

**Mapelux Opaca** is used inside buildings for civil use, such as shops, showrooms, apartments, offices, etc. for protecting floors made using **the Mapefloor System** subject to particularly intense use, or to make maintenance operations of the finishing treatment on floors made using **Ultratop** easier.

**Mapelux Opaca** is a matt, metal-filled wax characterised by its high resistance to traffic and frequent cleaning, even if strong detergents are used.

Thanks to the product's double reticulation which binds all the components, the **Mapelux Opaca** film is easy to clean and marks and stains left by traffic may be removed by a simple washing cycle.

**Mapelux Opaca** is extremely fluid and is easy and quick to spread on the surface.

**Mapelux Opaca** must be applied in two criss-cross coats, to obtain good protection of the surface.

Spread the first coat of **Mapelux Opaca** uniformly using a special waxing tool. Once the first coat has completely dried, spread the second coat at right angles to the first coat.

**Consumption**  
50 g/m<sup>2</sup>.

**Packaging**  
10 kg cans.



## Mapefloor Maintenance Kit



### Maintenance kit for the cleaning and maintenance of floors.

**Mapefloor Maintenance Kit** is a kit which contains a series of products for the cleaning and regular maintenance of floors, to guarantee their performance characteristics and attractive finish.

**Mapefloor Maintenance Kit** is particularly recommended for the maintenance of resin floors made using **Mapefloor System** inside civil, public and industrial environments. It is also suitable for the maintenance of the protective film on decorative floors made from **Ultratop**, including those mixed with **Dynastone Color** or natural aggregates inside civil environments, such as showrooms, shops and apartments.

**Mapefloor Maintenance Kit** is made up of the following products:

- **Mapelux Lucida** shiny double-reticulation, highly-resistant metallic wax, for protecting floors subject to particularly intense traffic.
- **Mapefloor Wax Remover** low-foaming, de-waxing, multi-action detergent for removing old layers of wax and double-reticulation metallic wax, such as **Mapelux Lucida** or **Mapelux Opaca**.
- **Mapefloor Cleaner ED** concentrated, low-foaming water-soluble detergent for daily cleaning operations.

### Consumption

please refer to the Technical Data Sheet for each product in the kit.

### Packaging

**Mapefloor Maintenance Kit** is available in 20 kg kits:

- 2 x 5 kg canisters of **Mapefloor Cleaner ED**;
- 1 x 5 kg canister of **Mapefloor Wax Remover**;
- 1 x 5 kg canister of **Mapelux Lucida**.



## Additix PE



### Admixture for epoxy and polyurethane products to make them thicken and thixotropic.

**Additix PE** is a product for epoxy and polyurethane resins to make them thicken and thixotropic.

**Additix PE** is used to make epoxy and polyurethane resins thixotropic in order to: apply thick layers of paint on vertical surfaces, prepare shells and skirting, repair and smooth out defects and imperfections of concrete substrates.

**Additix PE** must be added, from 2% to 5% by weight of the resin to thicken, depending on the needed thickness or need of thixotropic property, to epoxy and polyurethane resins, after they have been completely mixed with their catalysers.

Mix with a low speed drill fitted with a mixer until **Additix PE** is perfectly mixed in.

### Consumption

2-5% in weight by weight of the resins.

### Packaging

1 kg drums.









## Dynastone Color



**Coloured cementitious aggregates incorporated in the production of polished bricks and pre-cast panels for decorating floors and for elements used in urban design.**

**Dynastone Color** artificial aggregates, are particularly suitable for decorative purposes in the conventional and pre-cast building sector and for decorative architectural solutions.

When mixed with a suitable cementitious or organic binder, **Dynastone Color** aggregates may be used to create floors, cladding panels or pre-cast elements.

When added to self-levelling systems such as **Ultratop**, **Dynastone Color** aggregates are ideal for creating decorative pavements such as "Venetian Terrazzo".

The mix is prepared by blending **Dynastone Color** with **Ultratop** in a cement mixer at a ratio of approximately 1:1 in weight and adding water at a rate of approximately 10% of the total weight of the mix.

The dry-polishing process which brings out the aesthetic effect of the assorted grain-sizes, colours and rounded shape of the **Dynastone Color** aggregates may be carried out within only a few days of applying the mix.

When sprinkled on loosely, **Dynastone Color** aggregates may be used as ornamental elements in internal and external environments when creating flower beds or pedestrian areas.

**Dynastone Color** aggregates are available in red, yellow, white, orange, brown, green and blue.

### Consumption

when mixed with **Ultratop**: 10 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



MANCINELLI LOFT BUILDING - Tribiano (MI) - Italy

Covering new concrete flooring with:

MAPEFLOOR SYSTEM 33 (PRIMER SN, MAPEFLOOR I 300 SL,

MAPECOLOR PASTE, 0.25 QUARTZ, 0.5 QUARTZ, MAPEFLOOR FINISH 51)



# Repairing with cementitious mortars



## Sewament 3 Primer



**One-component cementitious mortar to be used as an adhesive primer before manually applying Sewament 10.**

**Sewament 3 Primer** is used to improve the bonding of **Sewament 10** to the substrate when the repair work is carried out manually with a trowel or a float.

**Sewament 3 Primer** must always be used as a scratch coat when manually repairing:

- vaults, concrete and masonry walls and floors of sewerage systems;
- water purification plants;
- canals for collecting black water of zootechny industries.

**Sewament 3 Primer** is made up of special hydraulic binders, special selected graded aggregates, water retaining additives.

**Sewament 3 Primer** is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidation of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

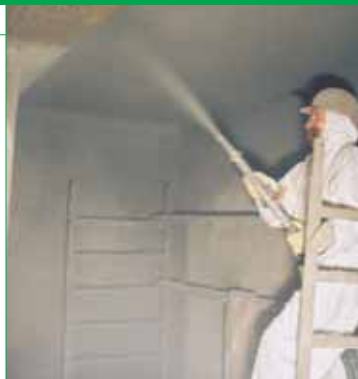
**Sewament 3 Primer** mixed with water becomes a fluid mortar, easily applied with a brush or sprayed on the concrete substrate previously saturated with water. Once hardened it ensures **Sewament 10**'s excellent bonding to the substrate. Apply **Sewament 10** onto the fresh surface of **Sewament 3 Primer**.

**Consumption**  
approximately 1.8 kg/m<sup>2</sup> per mm of thickness.

**Packaging**  
25 kg bags.



## Sewament 10



**One-component, fibre-reinforced, cementitious mortar for restoring and repairing sewerage systems.**

**Sewament 10** is used for the cortical restoration of damaged precast or placed concrete urban water purification system structures and sewerage systems.

**Sewament 10** is made up of hydraulic binders, selected graded aggregates, special water retaining additives and synthetic fibres. **Sewament 10** is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

**Sewament 10** mixed with water becomes a thixotropic mortar, easily workable manually and with a spraying machine.

**Sewament 10** can be applied, maximum 20 mm per layer, on the substrate which is sufficiently uneven (roughness not less than 5 mm). If the thickness needs to be more than 30 mm, it is essential to insert a reinforced net appropriately distanced from the substrate. Finish the surface with a sponge float or with a flat trowel. If

**Sewament 10** is manually applied, always apply a **Sewament 3 Primer**, single-component cementitious mortar bonding enhancer, beforehand.

### Consumption

approximately 18.5 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Sewament 40



**Fast-setting and hardening one-component cementitious mortar for repairing and protecting sewerage systems. It can be applied manually or by dry spray.**

**Sewament 40** is used for the cortical restoration of damaged precast or placed concrete urban water purification system structures and sewerage systems.

**Sewament 40** is made up of hydraulic binders, selected graded aggregates, special water retaining additives and synthetic fibres. **Sewament 40** is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

**Sewament 40** mixed with water becomes a thixotropic mortar, fast-setting and hardening, easily workable manually and with a dry spray machine. **Sewament 40** can be applied, maximum 20 mm per layer, on the substrate which is sufficiently uneven (roughness not less than 5 mm).

Thicker layers must be applied in several coats. If the thickness needs to be more than 30 mm, it is essential to insert a reinforced net appropriately distanced from the substrate. Finish the surface with a sponge float or with a flat trowel. At +10°C the surfaces repaired with **Sewament 40** are ready for use after 8 hours.

### Consumption

approximately 18.7 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags.



## Sewament 100



**Fibre-reinforced, acid-resistant, two-component, cementitious mortar for repairing and protecting sewerage systems. It can be applied manually or by wet spray.**

**Sewament 100** is used for the cortical restoration of damaged precast or placed concrete urban water purification system structures and sewerage systems.

**Sewament 100** is made up of pozzolanic reacting hydraulic binders, selected graded aggregates, special water retaining additives, synthetic fibres and a liquid form component based on acrylic polymers in water dispersion.

**Sewament 100** is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

**Sewament 100** mixed with water becomes a thixotropic mortar, fast-setting and hardening, easily workable manually and with a wet spray machine.

**Sewament 100** can be applied, maximum 35 mm per layer, on the substrate which is sufficiently uneven (roughness not less than 5 mm). Thicker layers must be applied in several coats. If the thickness needs to be more than 30 mm, it is essential to insert a reinforced net appropriately distanced from the substrate. Finish the surface with a sponge float or with a flat trowel.

### Consumption

approximately 21 kg/m<sup>2</sup> per cm of thickness.

### Packaging

25 kg bags + 4.7 kg drums.





# Installation of acid-resistant coatings

## REPAIRING SEWERAGE SYSTEMS

### Sewament 1



**High performance, fast setting cementitious adhesive with no vertical slip and high chemical resistance for the installation of ceramic floor and wall tiles in water purification plants and sewerage systems.**

**Sewament 1** is used for the installation of acid-inhibiting floor and wall coverings, such as gres, ceramic, klinker and special stone bricks, for the reparation of precast or placed concrete water purification plants and sewerage systems.

**Sewament 1** is made up of special hydraulic binders, special selected graded aggregates, water retaining additives and polymers. **Sewament 1** is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

**Sewament 1** mixed with water becomes a plastic mortar that is easily workable with a notched trowel and can be applied between 3 and 15 mm thick, depending on the type of acid-inhibiting floor and wall covering that will be installed. It is recommended to install the covering using the back-buttering method, applying the adhesive both on the installation bed and on the back of the tile.

**Consumption**  
approximately 1.4 kg/m<sup>2</sup> per mm of thickness.

**Packaging**  
25 kg bags.



### Sewament 2



**High performance, ready mix, cementitious mortar for grouting ceramic floor and wall tiles in sewerage systems (width of joint up to 15 mm).**

**Sewament 2** is used to grout joints of acid-inhibiting floor and wall coverings, such as gres, ceramic, klinker and special stone bricks, for the reparation of precast or placed concrete water purification plants and sewerage systems.

**Sewament 2** is made up of special hydraulic binders, special selected graded aggregates, water retaining additives and powder polymers. **Sewament 2** is resistant to the chemical aggression produced by sulphuric acid following the bacterial oxidization of the acid as the result of the anaerobic fermentation of civil and industrial liquids.

**Sewament 2** mixed with water becomes a plastic mortar that is easily workable. It is suitable for joints up to 15 mm wide. If applied correctly, the grouted joints have excellent resistance to chemicals in contact with highly acid reflux water, high resistance to sulphuric bacteria and high resistance to abrasion produced by water with a high content of sand. Furthermore it has low shrinkage, therefore the absence of cracks.

**Consumption**  
depending on the type of material and the width of the joint.

**Packaging**  
25 kg bags.



# Sealing and waterproofing expansion joints and cold joints

## SEALING AND WATERPROOFING EXPANSION JOINTS AND COLD JOINTS

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### Mapefoam



**Round closed cell expanded polyethylene foam cord as an aid to elastomeric sealants for the correct sizing of the movement joints. Available in coils where the length is proportionate to the diameter. Mapefoam** is placed at the base of the movement joints (expansion and separation). Appropriately positioned in depth, it allows the joint to be filled correctly with a flexible product to the designed thickness ensuring a properly formed seal with good adhesion to the sides of the joint.

**Consumption**  
according to the length of the joint.

#### Packaging

Ø 6 mm	boxes:	2500 m	length
Ø 10 mm	"	550 m	"
Ø 15 mm	"	550 m	"
Ø 20 mm	"	350 m	"
Ø 25 mm	"	200 m	"
Ø 30 mm	"	160 m	"

### Mapesil AC



**aSolvent-free, acetic-crosslinking mildew-resistant silicone sealant, with low modulus of elasticity available in 26 colours and transparent.**

Sealing expansion joints of up to 25% expansion of the initial size in interior and exterior ceramic tile floors and walls in swimming pools, bath-rooms and showers.

**Mapesil AC** can also be used to create perfectly flexible gaskets between construction elements in building, mechanical engineering, ship-building, automobile manufacturing, etc.

**N.B.:** **Mapesil AC** perfectly adheres onto glass, ceramic and anodised aluminium.

When first treating with **Primer FD**, **Mapesil AC** adheres well also on concrete, wood, metal, painted surfaces, plastic, rubber, etc.

**Mapesil AC** is classified F-25-LM in compliance with ISO 11600 standards.

**Consumption**  
depending on the size of the joint.

**Packaging**  
boxes of 25 pcs (310 ml cartridges).





## Mapesil BM



**Odourless, neutral cross-linking, low modulus silicone sealant for movement joints with maximum 25% expansion of initial size, suitable for water draining systems and for general use.**

Flexible sealing of interior and exterior expansion joints between precast reinforced concrete panels, concrete elements and PVC. Especially suitable for sealing between metal such as ventilating pipes, cabling passages, stringcourses, waterspouts, etc.

**Mapesil BM** is classified F-25-LM in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### Packaging

boxes of 25 pcs (310 ml cartridges).



## Mapesil LM



**One-component, neutral cross-linking, low modulus silicone sealant for movement joints with maximum 25% expansion of the initial size.**

Flexible sealing of interior and exterior expansion joints of ceramic wall tiling as well as of windows, mirrors, metals, PVC, polycarbonate etc. Also suitable for sealing these materials among themselves and with wood, concrete, etc.

Especially suitable for flexible sealing of external façades even those covered with limestone sensitive-to-acids. It does not stain.

Unsuitable for continuous water immersion.

**Mapesil LM** is classified F-25-LM in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### Packaging

boxes of 25 pcs (310 ml cartridges).



Jihlava water-park - Czech Republic  
Waterproofing the swimming pools with: MAPELASTIC, MAPESIL AC  
Ceramic tiles laid with: KERABOND + ISOLASTIC, KERAPOXY



## Mapesil Z



### Universal acetic-cross-linking silicone sealant.

**Mapesil Z** is formulated for use as a sealant and for forming perfectly elastic gaskets between various elements used in construction, mechanical engineering, ship-building, automobile manufacturing, and other industries.

**Mapesil Z** is a silicone sealant with acetic cross-linking in a thixotropic paste easily applied horizontally or vertically.

**Mapesil Z** cross-links at ambient temperatures, forming an elastic material. When applied on concrete or wood, first apply **Primer FD**.

Colours: transparent, white.

### Consumption

depending on the size of the joint.

### Packaging

boxes of 25 pcs (280 ml cartridges).



## Mapeflex AC4



### One-component acrylic sealant in water dispersion.

Sealing fraction joints in ceramic tile, marble or natural stone facings. Sealing expansion joints with expansion up to 10% of the initial size.

Forming flexible gaskets between building materials.

**Mapeflex AC4** can be applied on all absorbent surfaces including concrete, wood, gypsum, plaster, brick, foam concrete, natural stone, etc.

**Mapeflex AC4** seals are highly resistant under severe weather conditions, remaining flexible at temperatures as low as  $-30^{\circ}\text{C}$  and as high as  $+80^{\circ}\text{C}$ .

### Consumption

depending on the size of the joint.

### Packaging

boxes of 25 pcs (310 ml cartridges), 25 kg drums.





## Mapeflex PU20



**Two-component, self-levelling, polyurethane sealant for horizontal movement joints with expansion up to 10% of the initial size.**

**Mapeflex PU20** is a two-component, epoxy-polyurethane resin-based sealant with special catalysers.

When the two components are carefully mixed together, an homogenous paste with a fluid consistency is obtained, which is easy to pour into joints.

**Mapeflex PU20** may only be applied on horizontal surfaces.

**Mapeflex PU20** is used to form flexible of interior and exterior movement joints (expansion, separation, control joints, etc.) in ceramic, concrete, wood, etc. floors subject to heavy traffic such as stores, garages, supermarkets etc.

**Mapeflex PU20** is classified F-7.5 in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### Packaging

10 and 5 kg drums (A+B).



## Mapeflex PU30



**Two-component thixotropic polyurethane sealant.**

**Mapeflex PU30** is a two-component thixotropic sealant consisting of a isocyanate-free polyurethane polymer (part A) and a special hardener (part B). Mixing the two components produces a uniformly coloured thixotropic paste easily workable with a flat trowel.

**Mapeflex PU30** can be used on both vertical and horizontal surfaces.

Use **Mapeflex PU30** for flexible sealing of expansion joints in concrete walls. More in general, for vertical structures, both interior and exterior, where a thixotropic product with high resistance to chemical agents and waterproof is required. Sealing joints in ceramic tile floors subject to heavy traffic such as supermarkets, industrial areas with forklift trucks, sidewalks, pedestrian crossings, arcades, squares, etc. Sealing construction joints in concrete floors of car parks and industrial buildings subject to vehicle traffic. Flexible sealing of industrial machine beds, piping, discharges, drains, joints in rubber and PVC flooring.

**Mapeflex PU30** is classified F-7.5 in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### Packaging

10 and 5 kg drums (A+B).



Linate airport - Milan - Italy  
Sealing of the runway joints with:  
MAPEFLEX PB27

## Primer AS



### One component transparent primer for absorbent surfaces.

**Primer AS** is a one component, epoxy-isocyanic primer in solvents used on absorbent surfaces, to help the bonding of **Mapeflex PU45**, **Mapeflex PU50 SL** and **Mapeflex PU55 SL** one component, polyurethane sealants for sealing flooring joints, with, respectively, low and medium modulus of elasticity.

**Primer AS** may also be used when the joints are subject to frequent, prolonged contact with liquids or high mechanical stresses after sealing.

**Primer AS** is ready for use. It is applied by brush in a number of coats, according to the porosity of the substrate. The successive sealant must only be applied once the primer is no longer sticky, after approximately 60 minutes at +23°C and 50% R.H.

### Consumption

100-150 g/m<sup>2</sup> (20-30 g/m for a joint with a depth of 1 cm).

### Packaging

250 g cans.



## Primer M



### One component, solvent-free primer for non-absorbent surfaces.

**Primer M** is a one component, solvent-free polyurethane primer used to improve the bonding of polyurethane sealants, such as **Mapeflex PU45**, **Mapeflex PU50 SL** and **Mapeflex PU55 SL**, and adhesives, such as **Ultrabond P990 1K** and **Mapegum PU 1K**, on non-absorbent surfaces, such as metals (iron, steel, aluminium, copper, zinc-plated sheets), ceramics, klinker, glass and painted sheets.

**Primer M** is ready for use, and is applied by brush or a roller in a thin, uniform coat. The successive sealant or adhesive must only be applied once the primer is no longer sticky to the touch, after approximately 40 minutes at +23°C and 50% R.H.

### Consumption

50-60 g/m<sup>2</sup> (10-12 g/m for a joint with a depth of 1 cm).

### Packaging

250 g cans.



## Mapeflex PU40



### One component thixotropic polyurethane sealant with a low modulus of elasticity.

**Mapeflex PU40** is a one component flexible sealant, made from polyurethane with a thixotropic consistency. It is used to seal expansion and distribution joints on internal and external horizontal and vertical surfaces subject to movements up to 25% in prefabricated panels, façades on buildings for civil and industrial use and concrete floors in car-parks, supermarkets, shopping centres and warehouses.

**Mapeflex PU40** bonds well to concrete and natural stone substrates, even if a primer is not applied. However, we recommend using **Primer AS** on surfaces which are not solid enough or which have a slightly dusty surface, or when the joints are subject to high mechanical stress or frequent, long periods of contact with liquids. If it is applied on non-absorbent surfaces, such as iron, steel, aluminium, copper, zinc-plated sheet, ceramic, glass and painted sheet steel, **Mapeflex PU40** forms a good bond. To further improve bonding, we recommend applying **Primer M** in certain conditions.

The product is ready to use and is available in recyclable aluminium cartridges, which makes application of the product easy with the use of a special extrusion gun.

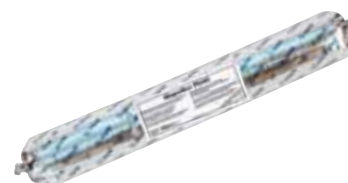
**Mapeflex PU40** is classified as F-25LM according to ISO 11600 standards.

### Consumption

according to the size of the joint.

### Packaging

boxes of 20 cartridges (each cartridge contains 600 ml).





## Mapeflex PU45



**One component, thixotropic, rapid-hardening polyurethane sealant and adhesive with a high modulus of elasticity.**

**Mapeflex PU45** is used for sealing expansion and distribution joints in concrete walls and floors subject to movement up to 7.5%, in internal and external car-parks, supermarkets, shopping centres and warehouses. It may also be used as an adhesive for bonding various materials together on a wide range of substrates. **Mapeflex PU45** offers a perfect bond for stone and brickwork, metallic elements, such as flashing and guttering, wooden and plastic baseboards, cable beads and decorative gypsum elements.

**Mapeflex PU45** is a one component, thixotropic, rapid-hardening and flexible polyurethane compound, that is particularly easy to apply on both horizontal and vertical surfaces using a special extrusion gun or by trowel.

**Mapeflex PU45** bonds well to concrete and natural stone substrates, even if they have not been primed. However, we recommend the use of **Primer AS** if the surface is weak, or has a slightly powdery surface, if the joints are subject to high mechanical stress or in frequent, prolonged contact with liquids.

Good adhesion is obtained when **Mapeflex PU45** is applied to surfaces which are not absorbent, such as iron, steel, aluminium, copper, ceramic, glass, zinc-plated or painted sheet. However, to further improve bonding, we recommend that under certain conditions, the substrate material is treated with **Primer M**.

The product is ready to use and is available in recyclable aluminium tubes, equipped with a special extrusion gun which makes the product particularly easy to use.

**Mapeflex PU45** is classified F - 20HM in compliance with ISO 11600 standards.

### Consumption

- used as sealant: according to the size of the joint;
- used as adhesive: according to the method used (formation of a bead or spot-application).

### Packaging

boxes of 20 pcs. (600 ml soft cartridges).



## Mapeflex PU50 SL



**One component, fluid, polyurethane sealant with a low modulus of elasticity for sealing flooring joints subject to movements up to 25%.**

**Mapeflex PU50 SL** is a one component, flexible polyurethane-based sealant which is easy to apply, for use on horizontal surfaces or surfaces with a maximum slope of 2%.

**Mapeflex PU50 SL** is used for sealing expansion and distribution joints in internal and external horizontal surfaces subject to movements of up to 25% of their original size under continuous use.

**Mapeflex PU50 SL** bonds well to concrete and natural stone substrates, even if they have not previously been primed. However, we recommend the use of **Primer AS** if the surface is not solid enough, if it has a slightly powdery surface or if the joints are subject to high mechanical stress or frequent, prolonged contact with liquids. If **Mapeflex PU50 SL** is applied on surfaces which are not absorbent, such as iron, steel, aluminium, copper, ceramic, glass or zinc-plated or painted sheet, adhesion may be improved if the material is treated with **Primer M**.

The product is ready to use and is available in recyclable aluminium tubes, equipped with a special extrusion gun which makes the product particularly easy to use.

**Mapeflex PU50 SL** is classified F - 25LM in compliance with ISO 11600 standards.

### Consumption

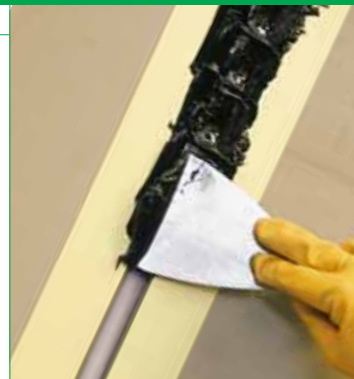
according to the size of the joint.

### Packaging

boxes of 20 pcs. (600 ml soft cartridges).



## Mapeflex PB25



**Two-component, flexible, polyurethane resin and special bitumen based sealant with thixotropic consistency and resistant to hydrocarbons.**

**Mapeflex PB25** is a two-component thixotropic sealant consisting of a isocyanate-free polyurethane polymer (part A) and a special hardener (part B).

By mixing the two components of **Mapeflex PB25**, a black coloured thixotropic paste, easily workable with a flat trowel, is obtained.

Use **Mapeflex PB25** for flexible sealing of joints in concrete walls. More in general, for vertical structures, both interior and exterior, where a thixotropic product with high resistance to chemical agents, hydrocarbons and waterproofing is required. Sealing joints in airport runways, construction joints in concrete floors of car parks, service areas and industrial buildings subject to vehicle traffic. Flexible sealing around machine beds in industry where resistance to hydrocarbons is required.

**Mapeflex PB25** is classified F-25-LM in compliance with ISO 11600 standards.

### Consumption

depending on the size of the joint.

### Packaging

10 kg drums (A+B).



## Maeflex PB27



**Two-component, self-levelling, flexible sealant based on polyurethane polymers modified with hydrocarbon resins.**

**Maeflex PB27** is a two-component self-levelling sealant consisting of a isocyanate-free polyurethane polymer (part A) and a special hydrocarbon resin-based hardener (part B). Mix the two components accurately together to obtain a self-levelling black-coloured paste that flows easily.

**Maeflex PB27** is used for sealing of expansion joints, highly resistant to hydrocarbons.

**Maeflex PB27** is formulated for sealing expansion joints in airport runways, highways, parking lots and garages, service areas and structures subject to vehicle traffic.

**Maeflex PB27** is classified F-25-LM in compliance with ISO 11600 standards.

**Consumption**  
depending on the size of the joint.

**Packaging**  
10 and 5 kg (A+B) drums.



## Maiband



**Alkali-resistant rubber tape with felt for cementitious waterproofing systems and liquid membranes.**

For sealing and waterproofing joints to wall and floor of baths, showers, terraces, balconies, etc., that are to be tiled with ceramic tiles, marble, natural stones.

**Maiband** can be used with any type of substrate: concrete, wood, plasterboard, etc.

**Maiband** must be bonded on surfaces which are free of oil, paint, dust and loose parts using **Adesilex PG4**, **Mapelastic** and **Mapegum WPS** (choose the product to use according to the type of application to be carried out).

Strips of **Maiband** may be joined with **Adesilex T**, **Adesilex T Super** or **Adesilex LP**.

**Packaging**  
rolls of 50 m x 12 cm;  
sealing gasket for outlets 118 x 118 mm and 300 x 300 mm;  
inside corner 90°;  
outside corner 270°.



## Maiband TPE



**TPE tape for flexible sealing and waterproofing expansion joints and cracks subject to movements up to 5 or 10 mm, using Maiband TPE 170 or Maiband TPE 325 respectively.**

It is particularly recommended for waterproofing expansion joints in road-works, water tunnels and covering applications.

**Maiband TPE** must only be bonded on surfaces which are free of oil, paint, dust and loose parts using **Adesilex PG4** or **Mapelastic** (choose the product to use according to the type of application to be carried out). Straps of **Maiband TPE** may be joined by carrying out using the "cold-weld" technique by applying contact adhesive, such as **Adesilex LP** poly-chloroprene adhesive in solvent, on both surfaces.

**Packaging**  
– **Maiband TPE 170**:  
30 m x 17 cm rolls;  
– **Maiband TPE 325**:  
30 m x 32.5 cm rolls.





## Adesilex PG4



**Two-component, thixotropic, epoxy adhesive with modified-rheology for bonding Mapeband, Mapeband TPE, PVC braces, Hypalon and for structural bonding.**

**Adesilex PG4** is a two-component adhesive made up of an epoxy resin base, fine-grained selected aggregates and special admixes.

**Adesilex PG4** is used both as an adhesive for bonding synthetic braces used in waterproofing applications and for repairing, sealing and bonding elements in concrete, reinforced cement, metal and natural stone.

**Adesilex PG4** is characterised by its low viscosity and, as a result, offers good wetting of the substrate. This makes it easy to apply by trowel on horizontal and vertical surfaces and on ceilings without dripping, thanks to it being highly thixotropic. To prepare the product, pour component B (white) into component A (grey) and mix together with a drill fitted with a low-speed mixing attachment until a homogenous mix is obtained.

### Consumption

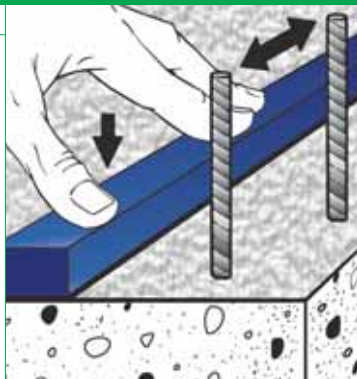
1.55 kg/m<sup>2</sup> per mm of thickness.

### Packaging

6 kg (A+B);  
30 kg (A+B).



## Idrostop



**Hydrophilic expandable rubber section for watertight construction joints.**

**Idrostop** is a soft preformed flexible strip, with an acrylic polymer base specially designed to form watertight construction joints up to a hydraulic pressure of 5 atm.

**Idrostop** does not contain bentonite. Due to its chemical composition **Idrostop** gradually expands when in permanent contact with water, creating an active barrier against pressurized water (positive and negative).

**Idrostop** strip can be applied to concrete, metal, PVC and natural stone with **Idrostop Mastic**, a ready-to-use solvent-free one-component adhesive with a base of MS polymers.

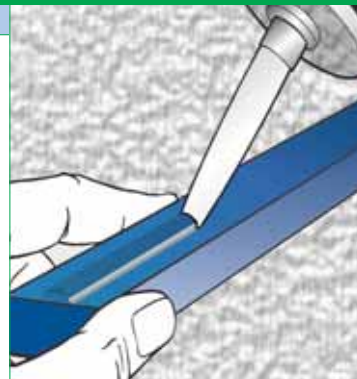
### Packaging

**Idrostop** is supplied in 3 sizes in carton boxes:

- **Idrostop 10** (size 20x10 mm):  
6 rolls of 10 m;
- **Idrostop 15** (size 20x15 mm):  
6 rolls of 7 m;
- **Idrostop 25** (size 20x25 mm):  
6 rolls of 5 m.



## Idrostop Mastic



**One-component adhesive for the installation of Idrostop.**

**Idrostop Mastic** is a ready-to-use solvent-free one-component MS polymer based adhesive. On extrusion, it is a thixotropic paste suitable for horizontal and vertical application that cures with humidity at a temperature between +10°C and +40°C to form an elastic product.

**Idrostop Mastic** also adheres perfectly to slightly damp surfaces provided they are perfectly clean and solid.

To apply, extrude the adhesive onto the surface on the previously cut to size **Idrostop**, or directly onto the concrete. Press **Idrostop** onto the substrate, gently firming it in all directions to ensure complete adhesion. Concrete can be poured after 24 hours.

### Consumption

approximately 290 ml per 12 m of **Idrostop**.

### Packaging

carton boxes containing 24 cartridges of 290 ml.



Underwater tunnel in Prague - Czech Republic  
Waterproofing of the tunnel joints with:  
**IDROSTOP, IDROSTOP MASTIC**



New

## Idrostop B25



**Waterstop profile made from natural sodium bentonite and polymers.**  
**Idrostop B25** is a waterstop product made from a mixture of natural sodium bentonite and polymers, which give the product excellent characteristics of compactness, flexibility and stability, according to a formula developed in MAPEI's own research laboratories. Swelling takes place in a controlled, uniform and gradual manner without the risk of altering the equilibrium of the mixture. When **Idrostop B25** expands, which take place when it comes into contact with water, it adapts perfectly to the volume required, to form a perfect seal in construction joints. **Idrostop B25** perfectly seals localised formations of honeycombs voids which are present in the structure of the concrete.

**Packaging**  
6 rolls (section of 20x25 mm), each roll is 5 m long.



## Idrostop PVC BI



**PVC waterstop for sealing structural joints.**  
For waterproofing structural joints in civil, industrial and hydraulic constructions. Used for sealing joints in cement constructions used to contain water, such as swimming pools, water tanks and dams, and for protecting structures below ground level from the water table.

**Packaging**  
**Idrostop PVC BI** is available in three sizes:  
– **Idrostop PVC BI20** (width 20 cm) in 25 m-long rolls;  
– **Idrostop PVC BI25** (width 25 cm) in 25 m-long rolls;  
– **Idrostop PVC BI30** (width 30 cm) in 25 m-long rolls.

New

## Idrostop PVC BE



**PVC waterstop for sealing structural joints.**  
For waterproofing structural joints in civil, industrial and hydraulic constructions. Used for sealing joints in cement constructions used to contain water, such as swimming pools, water tanks and dams, and for protecting structures below ground level from the water table.

**Packaging**  
**Idrostop PVC BE** is available in two sizes:  
– **Idrostop PVC BE20** (width 20 cm) in 25 m-long rolls;  
– **Idrostop PVC BE24** (width 24 cm) in 25 m-long rolls.



# Admixtures for mortar and concrete

## Planicrete



**Synthetic rubber latex for improving adhesion of cementitious mortars.** Planicrete is a latex based on synthetic polymers, which cannot be re-emulsified in water after hardening and are also resistant to saponification. When added to mortars, screeds and renders, it increases mechanical strength and adhesion to the substrate. For the preparation of bonding slurries, dilute 1 part of Planicrete with 1 part of water and then mix the solution with 3 parts of cement, while for the preparation of renders and screeds, dilute 1 part of Planicrete with 2 or 3 parts of water. Mix with sand and cement, then place it.

### Consumption

- for the preparation of bonding slurries: from 100 to 150 g/m<sup>2</sup>;
- for the preparation of screeds and renders: from 50 to 80 kg/m<sup>3</sup>.

### Packaging

25, 10, 5 and 1 kg drums.



## Mapeplast PT1



### Air-entraining plasticiser for concrete and mortars.

**Mapeplast PT1** is used to prepare high quality concrete and mortar that are durable and resistant to freeze/thaw cycles. **Mapeplast PT1** also improves the pumpability of concrete with low cement factor due to the lubricating effect produced by the micro air-bubbles which are evenly distributed in the mix.

**Mapeplast PT1** is particularly suitable for improving the plasticity and the thixotropy of mortars for renders and masonry.

**Mapeplast PT1** is an additive based on tensio-active agents and is supplied as a brown liquid. Add **Mapeplast PT1** to the mixing water and then mix with cement and aggregate.

### Consumption

- concrete: from 30 to 150 ml per 100 kg cement;
- cement mortar: from 100 to 300 ml per 100 kg binder.

### Packaging

200 l, 25 and 10 kg drums. 1000 l tanks. Also available in bulk on request.



## Idrosilex



### Integral waterproofer for cementitious mortars.

Use **Idrosilex** to obtain waterproof renders and screeds.

**Idrosilex** is especially recommended for waterproofing basements, swimming pools, reservoirs, tunnels etc.

**Idrosilex** is a product based on waterproofing additives available both as a liquid and a powder. To use **Idrosilex Powder**, add it to the batch of dry cement and sand and mix with water until a completely uniform mixture is obtained. To use **Idrosilex Liquid**, dilute it in the mixing water. The mix obtained with **Idrosilex** is applied like any normal rendering mortar.

### Consumption

- **Idrosilex Liquid**: 3-5 kg per 100 kg of cement.
- **Idrosilex Powder**: 2-4 kg per 100 kg of cement.

### Packaging

- **Idrosilex Liquid**: 25 kg and 6 kg drums.
- **Idrosilex Powder**: 25x1 kg boxes.



## Mapeplast SF



### Microsilica-based powdered additive with pozzolanic action for high quality mortars and concrete.

**Mapeplast SF** improves all the properties of concrete and in particular it provides greater cohesion to the fresh mix, high mechanical strength, greater impermeability and durability against aggressive liquid and gaseous agents.

**Mapeplast SF** facilitates the pumping of fluid concrete, with low cement factor. Add 5-10% of **Mapeplast SF** to the dry aggregate-cement mixture and mix until completely dispersed, then mix in the water and add the desired plasticiser or superplasticiser. The mix with **Mapeplast SF** is poured and worked in the same way as a normal concrete.

### Consumption

20-60 kg/m<sup>3</sup> of mix.

### Packaging

20 kg bags. Available in big bags or in bulk on request.  
Also available in 10 kg water soluble bags.



## Antifreeze S



### Chloride-free antifreeze for cementitious mortars and concrete.

**Antifreeze S** is used to prepare mortars and concrete (including reinforced) for use at ambient temperature as low as to -10°C.

**Antifreeze S** is particularly ideal for obtaining considerable increases in initial mechanical strength in 3 days even at low temperatures, together with quicker and safer removal of formwork and the elimination of the danger of frost on the concrete.

**Antifreeze S** is an additive based on accelerators for hardening concrete which accelerate hydration without affecting the normal setting time, provided that it is used in the recommended quantity.

Add **Antifreeze S** to the mixer with cement, aggregate and water. Mix for several minutes until a homogeneous mixture is obtained.

### Consumption

#### Antifreeze S Powder:

1-2 kg per 100 kg of cement.

#### Antifreeze S Liquid:

0.75-1.5 l per 100 kg of cement.

### Packaging

**Antifreeze S Powder**: boxes of 24x1 kg.

**Antifreeze S Liquid**: 6, 12 and 30 kg

drums - 200 l drums - 1000 l tanks.

Also available in bulk on request.





## Expancrete



### Expansive agent for concrete.

**Expancrete** is a powder admixture used to manufacture shrinkage-compensated concrete and mortars.

**Expancrete** is suitable for water tight castings and castings that require a contrast to concrete hygrometric shrinkage (water tanks, piping, floors, etc.).

Add **Expancrete** to the mixer at the same time as the other ingredients (cement, aggregates, water).

**Expancrete** is used only for reinforced concrete.

### Consumption

from 5 to 8 kg per 100 kg of cement.

### Packaging

20 kg drums. 10 kg water soluble bags. Also available on request in big bags or bulk.



## Mapecure SRA



### Curing admix with the property of reducing hydraulic shrinkage and the formation of micro-cracking.

**Mapecure SRA** is a special, chloride-free liquid admix, specially developed to drastically reduce final hydrometric shrinkage of repair mortar from the **Mapecrout** range, standard or self-compacting concrete and repair concrete mixed using **Stabilcem CC** in order to eliminate cracking.

The best results are obtained when **Mapecure SRA** is mixed with controlled-shrinkage repair mortar or in combination with concrete which contains **Expancrete**. It allows these systems to expand even further during the first few days of hardening whether they are damp-cured or air-cured. When **Mapecure SRA** and **Expancrete** are used together, there is the combined effect of the advantages of each single product, which are greatly amplified to guarantee that mortar and concrete perform far better than traditional cementite systems. **Mapecure SRA** is compatible with all traditional, naphthalene sulphonate-based super-plasticising adhesives from the **Mapecfluid** range, acrylic admixes from the **Dynamon** range and with all types of cement according to EN 197/1.

### Consumption

- mortar: 0.25-0.5% in weight of the mix;
- concrete: 5-8 l/m<sup>3</sup>.

### Packaging

20 kg drums;  
0.25 kg bottles.



## Mapestart 1



### Pumping aid admix for mortar and concrete.

**Mapestart 1** is a powder admix developed to lubricate tubes and pumping lines, and helps the cementitious mix to start flowing.

**Mapestart 1** may be mixed easily with water directly inside the hopper. Once the admix has been emptied from the hopper, the cementitious mix may be pumped. Never add **Mapestart 1** to the mix.

**Mapestart 1** forms an extremely thin film in the pumping lines, which reduces friction between the walls of the pipes and the cementitious mix pumped along them, to reduce the risk of blockages.

Also, if **Mapestart 1** is used at the end of the pumping operations, the pipes will be cleaner and will have a longer service life.

### Consumption

Dependent on the characteristics of the pump (size and power) and the pumping lines (length and size).

### Packaging

boxes of forty 225 g bags.



Gordana viaduct -  
Parma-La Spezia stretch - Italy  
Products used:  
MAPECURE SRA, EXPANCRETE,  
MAPECURE S, MAPELASTIC,  
STABILCEM SCC

## Rescon T



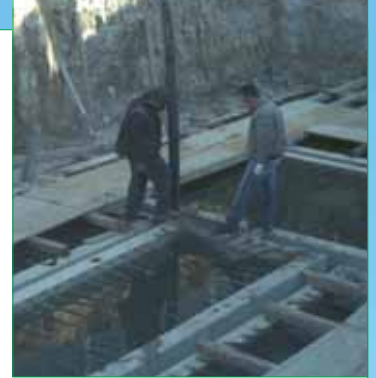
**Anti-washout admixture for underwater concrete castings.** **Rescon T** is used for manufacturing highly fluid, cohesive and easily pumpable concrete for underwater castings. With **Rescon T**, anti-washout concrete can be cast even underwater. Add **Rescon T** to the mix together with the other ingredients (cement, aggregate, water) then mix for at least 15 minutes.

**Consumption**  
10-25 kg/m<sup>3</sup> of mixture.

**Packaging**  
15 kg bags.



## Mapeplast UW



**Anti-leaching, cohesion-inducing admix for castings in underwater applications.**

**Mapeplast UW** is a powder-form admix ideal for preparing extremely cohesive concrete which is easy to pump, to carry out underwater casting applications without leaching of the cementitious mix. Thanks to its special formulation, **Mapeplast UW** allows anti-leaching concrete to be laid, even when cast in open or flowing water.

**Mapeplast UW** does not have plasticising properties. To create super-plastic or self-compacting concrete, a super-plasticising admix from the **Dynamon** range must be added.

**Mapeplast UW** is added into the cement mixer together with all the other ingredients (water, cement, aggregates and super-plasticising admix). Mix well until a homogenous mix is obtained.

**Consumption**  
5-10 kg/m<sup>3</sup> of mix.

**Packaging**  
boxes of four 5 kg bags.





# Curing agents

## Elastocolor Primer



**Solvent-based fixing primer with high penetration properties for porous substrates and curing agent for repair mortars.**

**Elastocolor Primer** is used to impregnate concrete surfaces repaired with products from the **Mapecrout** line before smoothing or painting with **Elastocolor Rasante** or with **Elastocolor Paint**. The product penetrates into porous substrates and ensures excellent insulation and good adherence to the paint that will be applied.

**Elastocolor Primer** is also used as a curing agent for repair renders and mortars and can be directly painted over with **Elastocolor Paint**. The product does not need to be removed before painting the repaired surfaces because it does not reduce the bonding strength of the protective material to the substrate.

**Elastocolor Primer** is ready-to-use. If the product is used as a fixing primer before painting on a slightly porous substrate, dilute **Elastocolor Primer** with 20-30% turpentine. If it is used as a curing agent, apply **Elastocolor Primer** pure directly on the fresh surfaces after the float finishing. The product can be applied with a brush, roller or manual or compressed air pump.

### Consumption

100-150 g/m<sup>2</sup> used as a fixing primer.  
110-150 g/m<sup>2</sup> used as a curing agent.

### Packaging

10 kg drums.



## Mapecure CA



**Solvent-based film-forming curing compound for mortars and concrete; may be painted over.**

**Mapecure CA** is used as a solvent-based curing compound for renders, cementitious mortars and fresh concrete, to minimize crazing during the plastic phase due to the rapid evaporation of the mixing water caused by wind and sunlight.

**Mapecure CA** is a product based on resins in organic solvents which forms a uniform film on concrete that is impermeable to water and air.

The product is in compliance with UNI 8657 and UNI 8658 for film-forming products for the protection of concrete.

**Mapecure CA** should be applied evenly and thinly by roller or spray with a manual pump or compressed air on the mortar or concrete surface. For concrete formwork

**Mapecure CA** must be applied immediately after demoulding.

**Mapecure CA** is ready-to-use, therefore must never be diluted with solvents. Mix the product well before application.

### Dosage

110-150 g/m<sup>2</sup>.

### Packaging

10 kg drums.



## Mapecure E



**Curing compound in water emulsion.**

**Mapecure E** is used to protect fresh concrete from rapid water evaporation caused by wind or sunlight. Its use is especially suitable for floors, airport runways, hydraulic structures and highways to avoid cracking due to plastic shrinkage.

**Mapecure E** forms a slightly elastic film over the concrete that is watertight and vapour-proof.

**Mapecure E** is supplied in a white water emulsion that can be applied pure or diluted 1:1 with water. It can be applied with a manual back-pack pump or with a low pressure compressed air gun.

Application: spray.

### Consumption

– full-strength: 70 to 100 g/m<sup>2</sup>.  
– diluted: 1:1 in volume with water: 140 to 200 g/m<sup>2</sup>.

### Packaging

25 kg drums;  
200 l drums;  
1000 l tanks.



## Biblock



**Two-component, epoxy curing compound in water dispersion, with consolidating and anti-dust properties.**

**Biblock** is a transparent, epoxy impregnation product, which is particularly recommended to guarantee good curing of concrete used for laying industrial floors, access ramps, runways, canals, storage tanks, etc.

To function correctly, **Biblock** must be applied on concrete which is still fresh. Due to its capability of penetrating into absorbent materials, **Biblock** may be used as a consolidator and anti-dust treatment for cementitious screeds and mechanically weak industrial floors.

**Biblock** is supplied in kits of two pre-weighed components, which must be mixed together until they are completely homogenous and then be diluted with up to 20% of water, before application.

**Biblock** is easy to apply by brush, roller or by spraying, on either horizontal or vertical surfaces, which must be clean and free of crumbly or loose parts.

### Consumption

approximately 100-150 g/m<sup>2</sup> according to the absorbency of the substrate.

### Packaging

5 kg kits (A+B).



## Mapecure S



**Solvent-based film-forming curing compound for mortars and concrete.**

**Mapecure S** is used as a solvent-based curing compound for renders, cementitious mortars and fresh concrete, to minimize the formation of cracks produced by rapid evaporation of the mixing water caused by wind and sunlight.

The use of **Mapecure S** is especially suitable for industrial floorings, airport runways, hydraulic structures and highways.

**Mapecure S** is a product based on resins in organic solvents that form a uniform film over concrete, impermeable to water and air. The product is in compliance with UNI 8657 and UNI 8658 for film-forming products for the protection of concrete.

**Mapecure S** must be applied by roller or sprayed with manual pumps or compressed air onto the surface of the mortar or concrete in a thin uniform layer. For formwork concrete, **Mapecure S** must be applied immediately after stripping.

**Mapecure S** is ready-to-use, therefore must never be diluted with solvents. Carefully mix the product before its application.

### Consumption

100-110 g/m<sup>2</sup>.

### Packaging

24 kg drums;  
200 l drums.



## Mapecure SRA



**Curing admix with the property of reducing hydraulic shrinkage and the formation of micro-cracking.**

**Mapecure SRA** is a special, chloride-free liquid admix, specially developed to drastically reduce final hydrometric shrinkage of repair mortar from the **Mapecrout** range, standard or self-compacting concrete and repair concrete mixed using **Stabilcem CC** in order to eliminate cracking.

The best results are obtained when **Mapecure SRA** is mixed with controlled-shrinkage repair mortar or in combination with concrete which contains **Expancrete**. It allows these systems to expand even further during the first few days of hardening whether they are damp-cured or air-cured. When **Mapecure SRA** and **Expancrete** are used together, there is the combined effect of the advantages of each single product, which are greatly amplified to guarantee that mortar and concrete perform far better than traditional cementitious systems. **Mapecure SRA** is compatible with all traditional, naphthalene sulphonate-based super-plasticising adhesives from the **Mapecfluid** range, acrylic admixes from the **Dynamon** range and with all types of cement according to EN 197/1.

### Consumption

– mortar: 0.25-0.5% in weight of the mix;  
– concrete: 5-8 l/m<sup>3</sup>.

### Packaging

20 kg drums;  
0.25 kg bottles.





# Form Release Agents

## Form Release Agents DMA 1000



### Form release agent based on emulsifiable oil.

**DMA 1000** is an oil which is emulsifiable with water, to be applied to all types of wooden forms for easier and faster removal of formwork from concrete castings, improving their appearance.

Pour 20 parts water by volume into a very clean container and gradually add one part by volume of the **DMA 1000**, mixing thoroughly to obtain a white emulsion. For new or highly absorbent timber it is advisable to use **DMA 1000** diluted with water in the proportion of 1:5.

On dry or slightly damp form, spread the emulsion in a single coat by means of a brush; for new and highly absorbent timber it is advisable to carry out the application in a single coat.

### Consumption

from 10 to 30 g/m<sup>2</sup> of undiluted product.

### Packaging

23, 9 and 4.5 kg drums; 200 l drums; 1000 l tanks.

Also available in bulk on request.





## Form Release Agents DMA 2000



### Universal form release agent with chemical and physical action.

**DMA 2000** is used for all types of timber, iron, steel, aluminium and plastic form, to provide a perfect release of the form from cast concrete.

The use of **DMA 2000** results in clean faced concrete without grease stains, even when white cements are used. **DMA 2000** is also recommended for steam-cured concrete.

**DMA 2000** is based on synthetic oils and special additives, together with corrosion inhibitors.

Characterized by high fluidity, **DMA 2000** is a ready to use product and therefore no water or solvents need to be added before application.

Apply **DMA 2000** by brush or spray with a portable pump.

### Consumption

from 20 to 40 g/m<sup>2</sup>, depending on the type of form used.

### Packaging

200 l, 23 and 4.5 kg drums;  
1000 l tanks.

Also available in bulk on request.



## Form Release Agents DMA 3000



### Form release agent based on vegetable oil in water emulsion with chemical and physical action for improving façades.

**DMA 3000** is used for all types of timber, iron, steel, aluminium and plastic form, to provide a perfect release of the form from cast concrete.

The use of **DMA 3000** results in clean faced concrete without air bubbles and grease stains, even when white cements are used.

**DMA 3000** is also recommended for steam-cured concrete.

**DMA 3000** is based on vegetable oils and special additives, together with corrosion inhibitors.

Characterised by high fluidity, **DMA 3000** is a ready to use product, therefore no water or solvents need to be added before application.

Apply **DMA 3000** by brush or spray with a portable pump.

### Consumption

from 15 to 25 g/m<sup>2</sup>, depending on the type of form used.

### Packaging

200 l, 23 and 4.5 kg drums;  
1000 l tanks.

Also available in bulk on request.



Dam on the Alaco river - Mammone S. Sostene - Italy  
Mapei products used: MAPEGROUT T40, MAPELASTIC, MAPEBAND,  
ADESILEX PG1, FORM RELEASE AGENT DMA 2000









# Mapei Group

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## MAPEI PRODUCT CERTIFICATIONS FOR THE BUILDING INDUSTRY

[illegible]

PRODUCTS									
<b>Mapegrout Easy Flow</b>									EN 1504-3
<b>Mapegrout Easy Flow GF</b>									EN 1504-3
<b>Mapegrout FMR</b>									EN 1504-3
<b>Mapegrout Gunite</b>									EN 1504-3
<b>Mapegrout Fast-Set</b>									EN 1504-3
<b>Mapegrout SV</b>									EN 1504-3
<b>Mapegrout SV Fiber</b>									EN 1504-3
<b>Mapegrout SV T</b>									EN 1504-3
<b>Mapegrout T40</b>									EN 1504-3
<b>Mapegrout T60</b>									EN 1504-3
<b>Mapegrout Thixotropic</b>									EN 1504-3
<b>Mapelastic</b>									EN 1504-2
<b>Mapelastic Foundation</b>									EN 1504-2
<b>Mapelastic Smart</b>									EN 1504-2
<b>Mapesilent Band</b>			●						
<b>Mapesilent Door</b>			●						
<b>Mapesilent Panel</b>			●						
<b>Mapesilent Roll</b>			●						
<b>Mapesilent Tape</b>			●						
<b>Monofinish</b>									EN 1504-2 EN 1504-3
<b>Nivorapid</b>		●	●		CT-C40-F10-A2 <sub>n</sub>		●		
<b>Planitop 100</b>									EN 1504-2
<b>Planitop 200</b>									EN 1504-2
<b>Planitop 400</b>									EN 1504-3
<b>Planitop 430</b>									EN 1504-3
<b>Planitop HDM</b>									EN 1504-2 EN 1504-3
<b>Planitop HDM Maxi</b>									EN 1504-3
<b>Plano 3</b>					CT-C25-F7-A2 <sub>n</sub>		●		
<b>PoroMap Intonaco</b>								●	
<b>PoroMap Intonaco Macchina</b>								●	
<b>Primer G</b>	●		●						
<b>Topcem Pronto</b>		●	●		CT-C30-F6-A1 <sub>n</sub>		●		
<b>Ultraplan</b>	●		●		CT-C30-F7-A2 <sub>n</sub>		●		
<b>Ultraplan Eco</b>	●		●		CT-C25-F7-A2 <sub>n</sub>		●		
<b>Ultraplan Maxi</b>	●		●		CT-C35-F7-A2 <sub>n</sub>		●		



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