

Eporip Turbo

Two component polyester resin for sealing cracks in screeds and for small areas of repair



WHERE TO USE

Eporip Turbo is a very fast hardening polyester resin that can be used as a:

- resin, for sealing cracks in cementitious screeds;
- mortar, if clean dry sand is added (maximum mix ratio 1:1);
- reaction resin for interior and exterior bonding of concrete, ceramic tiles, stone material, wood, metal, etc.

Some application examples

- Sealing cracks in cementitious screeds.
- Fixing strips, step profiles, casements, connections and other types of profiles.
- Fixing anchoring bolts and dowels.
- Mortar for repairing and sealing holes and splinters (for example step corners).
- Mortar for small patching of screeds with high mechanical strength.
- Rapid bonding of concrete, ceramic tiles, stone material, wood, etc.

TECHNICAL CHARACTERISTICS

Eporip Turbo is a reactive polyester resin consisting of two pre-measured components (component A = resin, component B = hardener) that must be mixed together before use.

Eporip Turbo is a fluid product, cross-linking without shrinkage and, after curing, has high mechanical characteristics in addition to its ability to bond concrete and steel.

Eporip Turbo is waterproof and resistant to weathering, and is therefore suitable for exterior use.

RECOMMENDATIONS

- Do not apply **Eporip Turbo** at temperatures below +5°C.
- Do not apply **Eporip Turbo** on damp surfaces.
- Do not apply **Eporip Turbo** on dusty, crumbling and loose surfaces.
- Mix the resin completely (component A) with the hardener (component B) before adding clean dry sand.

APPLICATION PROCEDURE

Preparing the substrate

To ensure a good bond is achieved with **Eporip Turbo**, special care must be taken in preparing the surfaces that need to be bonded or sealed.

The surface must be clean, sound and dry.

All loose and crumbling parts, dust, cement laitance and traces of mould-release oils and paint must be removed by careful sandblasting or brushing.

When applying the product to metal, remove any rust and grease residues beforehand, preferably by means of sandblasting down to shiny metal.

Preparing the mix

The two **Eporip Turbo** components must be mixed together.

Pour component B into component A. With a drill fitted with a low speed stirrer mix until the paste is perfectly smooth and even.

Do not use partial amounts to avoid the risk of accidental ratio errors that could prevent **Eporip Turbo** from curing fully or incompletely.

If **Eporip Turbo** is used as a mortar or as an adhesive, clean dry sand can be added to the prepared mix up to a mix ratio of 1:1.

Applying the mix

Eporip Turbo can be applied with a brush or a trowel. When **Eporip Turbo** is used to seal cracks, simply pour.

If further smoothing or bonding is required, cover the surface of the **Eporip Turbo** with sand whilst still fresh.

The pot life of the product is approximately 7 minutes. The addition of sand extends the products' pot life.

Cleaning

Tools and containers used to prepare and apply **Eporip Turbo** must be cleaned with solvents immediately after use.

Once hardened, the resin can only be removed mechanically.

CONSUMPTION

Depends on substrate roughness and on working methods.

PACKAGING

Eporip Turbo is supplied in 508 g packaging (component A = 500 g; component B = 8 g).

STORAGE

Eporip Turbo when stored in its original sealed packaging in a cool and dry place has a shelf life of 12 months.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Eporip Turbo component A is harmful if inhaled and irritating to the eyes and skin. Component B is irritating to the eyes and may cause allergic reactions in sensitive individuals. Wear protective clothes, gloves and eye/face protection. Use in well ventilated areas. In case of accident or feeling unwell seek medical attention.

Eporip Turbo component A is flammable while component B may cause combustible material to ignite. It is recommended to store and use the product away from naked flames and sources of ignition.

Eporip Turbo component B is harmful to aquatic organisms - avoid release of the product to the environment. For further information refer to the Safety data Sheets for the product.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

All relevant references for the product are available upon request and from www.mapei.com

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	component B
Consistency:	fluid paste	fluid paste
Colour:	grey	white
Density (g/cm³):	1.69	1.1
Storage:	12 months in original packaging at temperatures between +5°C and +30°C	
Hazard classification according to EC 1999/45:	harmful, irritant, comburent inflammable Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packaging and Safety Data Sheet	
Customs class:	3506 99 90	
APPLICATION DATA (at +23°C – 50% R.H.)		
Mixing ratio:	component A : component B = 500 : 8	
Consistency of mix:	fluid paste	
Colour:	grey	
Density of mix (g/cm³):	1.69	
Brookfield viscosity (mPa·s):	4,700 (5 shaft - 20 rev)	
Pot life:	7 minutes	
Setting time:	20-30 minutes	
Application temperature range:	from +5°C to +30°C	
Final curing time:	2 hours	
FINAL PERFORMANCE DATA		
Adhesion to concrete (N/mm²):	3.0 (concrete failure)	

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