

KÖSTER

KBE Liquid Film

Technical guideline / Article number 1.13
Issued: April 1, 2010

- Official test certificate, MPA NRW. – testing according to AIB, appendix III
- Official test certificate of AMPA, Hannover examination according to ASTM
- Test report College of Ostfriesland, - water vapour permeability

Highly elastic, solvent-free, rubber/bitumen liquid membrane

Features

KÖSTER KBE Liquid Film is a highly elastic, solvent-free sealing compound on a rubber / bitumen basis. The material is weather and UV-resistant as well as root-growth inhibiting.

Technical data

Solids content	> 60 % by weight
pH-value	11.0
Elongation at break	> 900 %
Retraction	> 60 %
Viscosity	ca. 8000 mPa.s
Application temperature	+ 5 °C to + 35 °C
μ-value	approx. 13000
s _d -value	approx. 26 m (at 2 mm dry layer thickness)

Field of application

For foundation and intermediate waterproofing on horizontal areas of terraces, balconies, wet and moist rooms (under screeds), for priming and for sealing seams and edges of KÖSTER KSK waterproofing membranes in above and below ground construction, e. g. underground garages.

Substrate preparation

The substrate must not be wet. It can be dry or slightly moist. It has to be free of frost, grease, tar and oil and loose particles.

Any protuberances must be removed. Edges must be broken (chamfered to approx. 45 degrees). Internal corners and wall/floor junctions must be profiled by installing rounded out fillets. The material can be applied on concrete, plaster, masonry, bitumen roofing membranes, metal, wood, insulation, porous concrete, asbestos cement panels etc..

Special fields of application

Elastic waterproofing of areas with ground contact

KÖSTER KBE Liquid Film is ideal for application over plaster or concrete, flush jointed masonry or KÖSTER NB 1 Grey. Voids, open joints etc. have to be closed prior to application e. g. using

KÖSTER Repair Mortar. In the area of wall/floor junctions, on construction joints and especially in areas at risk of cracking, KÖSTER Glass Fibre Mesh has to be embedded into the fresh coating.

Prior to backfilling, the coating has to be protected against mechanical damages, e. g. filtration fleece on drainage sheets. The installation of a suitable drainage system is also recommended.

KÖSTER KBE Liquid Film is also suited for waterproofing floor areas with ground contact against rising damp.

Infiltration of uncured waterproofing layers of KÖSTER KBE Liquid Film by water must be avoided. The exposure of the coating to stresses, e. g. movement, water etc., must happen only after the waterproofing layer has dried completely. On horizontal waterproofing layers, two layers of PE-foil are placed as sliding a layer before the screed is installed.

Balconies and terraces

KÖSTER KBE Liquid Film is especially suited for sealing balconies and terraces. Waterproofing into drainage outlets, around upstands and connections to gutters can be applied in one seamless application without complicated detailing work. KÖSTER Glass Fibre Mesh should be embedded into the first layer of KÖSTER KBE Liquid Film over the entire area as well as at all connections.

In cases of extreme movement of joint areas or wall / floor junctions, KÖSTER BD Flex Tape K 120 is embedded. On top of the fully dried coating, two layers of 0.4 mm PE-foil are placed as separating layer. Then, a reinforced screed with a min. layer thickness of 3 cm is put in.

Application

Stirr well before application.

Area waterproofing:

A primer can be made of KÖSTER KBE Liquid Film and water in a mixing ratio of 1 : 2. It is applied with a brush in one well covering coat. After the primer has dried, the covering coats are applied. KÖSTER KBE Liquid Film can be applied with a roller, brush,

trowel, paint brush or with a suited spraying device. Every coat must dry completely before the next coat can be applied. For area waterproofing, apply at least 2, preferably 3 undiluted coats. Embed KÖSTER Glass Fibre Mesh into the first fresh coat on the whole area. The mesh is painted over with a brush or a roller.

Fresh coatings can be protected from rain by spraying on KÖSTER BE Rainproof. Good drying of the coating can only be warranted if the application temperature is above + 5 °C. KÖSTER KBE Liquid Film can be topped with other materials after 24 hours.

Application of KÖSTER KSK membranes:

KÖSTER KBE Liquid Film can be used as primer – undiluted – for the cold self-adhesive membranes. The primer coat should cover the substrate completely.

KÖSTER KBE Liquid Film can also be used to seal the ends of the KÖSTER KSK membranes. The material is used undiluted for this purpose.

Technical guidelines cited

KÖSTER NB 1 Grey	Art.-No.	3.021
KÖSTER Repair Mortar	Art.-No.	5.030
KÖSTER BE Rainproof	Art.-No.	7.23
KÖSTER Bitumen Remover	Art.-No.	9.03
KÖSTER Glas Fibre Mesh	Art.-No.	11.01
KÖSTER BD Flex Tape K 120	Art.-No.	11.03

Consumption

For priming:

Diluted with water:

1: 2 (KÖSTER KBE Liquid Film : water)

Undiluted:

approx. 125 g / m²

approx. 250 g / m²

For waterproofing:

approx. 1.0 kg / m² per coat

For seam sealing:

approx. 1.0 kg / (m * mm layer thickness)

Cleaning of tools

Clean tools immediately after use with water, clean off dry material with KÖSTER Bitumen Remover.

Packaging

6 kg and 24 kg bucket

Storage

Store the material in a frost-free place; in originally sealed packages, it can be stored for 12 month.

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.