KÖSTER
KBE Liquid Film

Technical guideline / Article number **1.13**
Issued: April 17, 2012

- 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 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 waterproofing and intermediate waterproofing on horizontal areas such as terraces, balconies, wet and moist rooms (under screeds), for priming and for sealing the seams and edges of KÖSTER KSK waterproofing membranes in above and below ground construction, and garages.

Substrate preparation

The substrate can be dry or slightly moist but not wet. It has to be free of frost, grease, tar and oil, loose particles, and any bond-inhibiting material.

Any protrusions must be removed. Edges must be broken, (chamfered to approx. 45 degrees). Internal corners and wall/floor junctions must be rounded out with fillets. The material can be applied on concrete, plaster, masonry, and bitumen roofing membranes.

Special fields of application

Elastic waterproofing of areas in 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 using for example KÖSTER Repair Mortar. In the area of wall/floor junctions, on construction joints and especially in areas at risk of cracking, KÖSTER Glass Fiber Mesh has to be embedded into the fresh first layer.

Prior to backfilling, the coating has to be protected against mechanical damage, for example with KÖSTER Protection and Drainage Sheet 3-400. The installation of a suitable drainage system is also recommended.

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

The exposure of the coating to stresses such as movement, water etc., must happen only after the waterproofing layer has completely dried. On horizontal areas, two layers of PE-foil are placed as a gliding layer on top of the cured waterproofing layer before the screed is installed.

Balconies and terraces

KÖSTER KBE Liquid Film is especially suited for waterproofing balconies and terraces. Waterproofing drains, around downspouts and gutter connections can be applied in one seamless application without complicated detailing work. KÖSTER Glass Fiber Mesh is embedded into the fresh first layer of KÖSTER KBE Liquid Film over the entire area as well as at all connections.

In cases of extreme joint movement or at 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 a gliding layer. Afterwards, a reinforced screed with a min. layer thickness of 3 cm is installed.

Application

Stir well before application.

Area waterproofing:

A primer can be made of KÖSTER KBE Liquid Film and water in a mixing ratio of 1 : 1. It is applied with a brush, roller or suitable spray equipment in one coat. After the primer has dried, the waterproofing coats are applied. KÖSTER KBE Liquid Film can be applied with a roller, brush, trowel, paint brush or with suitable spraying equipment. 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 Fiber 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 applying KÖSTER BE Rainproof. Proper drying of the coating can only be warranted if the temperature during application and drying is above + 5 ° C. KÖSTER KBE Liquid Film can be covered with other materials after 24 hours.

Application of KÖSTER KSK membranes:
KÖSTER KBE Liquid Film can be used as primer – diluted or undiluted – for KÖSTER cold self-adhesive membranes. The primer coat should cover the substrate completely.
KÖSTER KBE Liquid Film is also used to seal the ends of the KÖSTER KSK membranes. The material is used undiluted for this purpose.

Consumption

Undiluted as primer:

approx. 250 g / m²

Consumption will vary according to substrate absorbency.

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 containers it can be stored for 12 months.

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 Glass Fiber Mesh	Art.-No.	11.01
KÖSTER BD Flex Tape K 120	Art.-No.	11.03

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.

KÖSTER BAUCHEMIE AG · Dieselstr. 3 - 10 · D - 26607 Aurich · Germany
Tel. + 49 4941 9709 0 · Fax + 49 4941 9709 40 · info@koster.eu – www.koster.eu