



T 704 / 0300.ENG

KÖSTER® KBE Liquid Film

Highly elastic, solvent free rubber – bitumen liquid film

- **Official Test Certificate**, MTL NRW. – test acc. To AIB, Appendix III
- **Official Test Certificate** of the OMTL Hannover – examination following ASTM
- **Official Test Certificate**, Instytut Techniki Budowlanej, Warschau
- **Official Test Certificate**, MTL NRW. – test acc. To DIN 18195, part 2
- **Official Examination Report** College East Friesland, – water vapour permeability
- **Official Test Certificate** Panstwowy Zaklad Higieny, Warschau

Product Description:

Turkish product name > KÖSTER KBE Flüssigfolie

The KBE-Liquid Film is a highly elastic, single component, solvent free waterproofing material based on a unique combination of rubber and bitumen.

Once applied to the substrate KBE-Liquid Film forms a weather and UV resistant coating.



- KBE is dynamic crack-bridging
- KBE bonds to wet, dry, absorbent and non-absorbent surfaces
- KBE is resistant to all dilute acids, alkalis, fumes and flue gases commonly encountered in the industry.
- KBE coatings are heat and cold resistant from -20 °C to +200 °C.
- KBE can be made instant rainproof by using KBE RAINPROOF

Applications:

- Foundations,
- Seals joints of sealing membranes,
- Underground garages and basements,
- In the building industry and civil engineering,
- Silos, silage containers, store-rooms and agricultural buildings, agriculture,
- Terraces, balconies, flat roofs and planters
- Wet- and damp rooms (under tiles)
- Concrete, plaster, masonry, roofing felt, sealing membranes,
- Protection of metal, wood, insulating material, porous concrete, synthetic materials, asbestos cement tiles, etc.

Advantages:

- KBE is supplied ready-to-use for cold application
- Single component, no mixing required
- Solvent free, can therefore be used without ventilation
- KBE is thixotropic and can therefore be used horizontal, vertical and overhead.
- Can be used above and below ground

Technical Data:

Break extension	> % 900
Application temperature	+5°C to +30°C
Viscosity	app. 8000 mPa.s
Solid matter ratio	> % 60

Plastic deformation	> % 60
μ value	app. 13000
Sd value (2mm for dry thickness)	app. 26 m

Properties:

Drying Time - Will vary according to temperature, humidity, and porosity of surface coated. Under average conditions [+20°C, 50% R.H.], KÖSTER KBE Liquid Film is sufficiently dry for application of new layer in 24 - 48 hours.



Instructions:

Job Conditions - Air and surface temperature for application must be +5°C to +30°C and must remain so for a minimum of 24 hours. High humidity and/or low temperatures will prolong curing time.

Temporary Protection - Shall be provided at all times until the material is fully cured.

Surface Preparation - The surface has to be dry, sound and solid, free of laitance, paint, dust, form oil and other contaminants that might affect the bonding adversely. Suitable tools are wire brushes, high-pressure water jets, sand and shot blasting. Cracks and surface honeycombs should be chiselled open so that application of an even uniform coat can be achieved. Smaller honeycombs, cracks and depressions should be filled with Köster Repamor THIN and be allowed to dry for 24 hours before commencing. Cracks, honeycombs and depressions larger than 5 mm should be filled

with KÖSTER Repamor and be left for curing for at least 24 hours.

Primer - For improved bonding, strengthening and water resistance of KBE Liquid Film, we recommend using Polysil.

If it is necessary to prime the substrate, dilute KBE Liquid Film with water and apply it with a brush in one rich layer. Allow priming layer to cure thoroughly. Then apply the subsequent topcoats.

Subsequent Layers - Stir material thoroughly prior to application. Apply the KBE Liquid Film with roller, brush, squeegee, broom, trowel or suitable spraying device. Allow every coat to dry completely before applying the next one.

Embed KÖSTER Glass Fibre Mesh into the still fresh first layer, at construction joints, wall-floor connections, cracks and other areas prone to cracking; apply the second coat with brush or roller. Freshly applied KBE threatened by sudden rain, can be protected instantly by spraying KÖSTER BE-Rainproof onto the material to ensure a proper drying of the KBE Liquid Film.

Do not apply layers thicker than 1,0 mm in a single coat. Layers thicker than 1mm may not cure properly.

External Basement Waterproofing:

The KBE Liquid Film adheres excellent to plaster, concrete, full joint masonry or KÖSTER NB System-Sealing Slurry. Seal flaws, such as open joints, etc, e.g. with KÖSTER Repamor repair mortar prior to the waterproofing with KBE Liquid Film.

Wall /floor junctions, construction joints and crack-prone areas require KÖSTER Glass Fibre Mesh to be embedded into the coating. Protect the coating from mechanical damage prior to back-fill, e.g. with filter cloth or drainage boards. When applying the drainage follow the instructions of DIN 4095.

KBE Liquid Film is furthermore suitable for sealing off rising damp at ground level. Water accumulations between the substrate and the coating must be avoided. The coating only develops its properties after complete curing



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is completed. When used to waterproof horizontal surfaces that require protective screed, use 2 layers of PE foil before applying the screed. This is to avoid thermal differences in the screed and the substrate stressing the KBE Liquid Film. The screed is now floating and will not be influenced by movement of subsequent layers.

KÖSTER KBE Liquid Film is the ideal sealant on balconies and terraces, because it is possible to form all details in one operation, i.e. stairs, handrails, gullies and drainpipes. Simply apply the material with brush or roll, because KÖSTER KBE Liquid Film provides excellent adhesion to all common construction materials.

Embed KÖSTER Glass Fibre Mesh into the coating at areas prone to cracking and KÖSTER Flex Band Dilatation Tape over extreme expansion joints and at wall /floor junctions. The protruding edges of the joint sealing tape provide excellent link with the sheet sealing. Horizontal areas should have a slope of at least 2% to prevent rain water accumulation. Before applying a reinforced screed (>3 cm thick) to the coating, apply two 0.4 mm polyethylene foil sheets as a separating layer (= floating screed).

Consumption :

KÖSTER KBE	(Primer)	0,15 kg / m ²
KÖSTER KBE	(2 – 3 layers)	2,0 – 3,0 kg / m ²

Consumption in Combined Use :

KÖSTER NB 1 Grey	1,0 – 2,0 kg / m ²
KÖSTER KBE	1,0 – 1,5 kg / m ²

Packaging :

KÖSTER KBE	20 kg plastic bucket
KÖSTER KBE	5 kg plastic bucket



Cleaning of Tools:

Clean tools with water while material is still wet.

Notes:

Do not apply below +5°C or if temperatures below +5°C are expected within 24 hours. Do not apply on wet or frozen surfaces. Do not apply on dusting or weak surfaces. If in doubt, perform adhesion test.

Storage:

Containers must be stored at +5°C to +30°C in tightly sealed containers. Keep out of direct sunlight, protect from water and freezing.

Shelf Life:

12 months.

Caution:

Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye / face protection. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Material Safety Data Sheet.



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Revision Date: 27-12-2017