

2-component, solvent-free universal epoxy bonding agent

Features

KÖSTER LF-BM is a solvent free universal binding agent which bonds excellently to all mineral substrates.

It is resistant to high mechanical stresses and it can be filled with fire dried silica sands.

Technical data

Consistency	approx. 550 mPa·s (20 °C)
Mixing ratio (by weight)	2 : 1 (A : B)
Pot life at 12 °C / 23 °C / 30 °C / 40 °C	60 / 40 / 21 / 15 min.
Spec. gravity	1.1 g / cm ³
Application of next layer	after approx. 12 hours It develops its full mechanical and chemical resistance after 7 days (at 23 °C and 65 % relative humidity).
Colour	yellowish, transparent
Application temperature	min. + 5 °C
Compressive strength	approx. 60 – 70 N / mm ² dep. on filler material
Flexure tensile strength	approx. 30 N / mm ²
Adhesive tensile strength	approx. 6 N / mm ²

Field of application

KÖSTER LF-BM can be used as a primer for mineral substrates and also for the making of silica-sand containing filling compounds for the subsequent coating with epoxy resin coatings.

Silica sand filled mortar can also be used outside. Silica sand filled mortar can be applied directly without priming as levelling compound for surface roughness or scarifying grooves. Further, it can be used as a casting resin for the fixing of masonry anchors, metal posts etc.

Substrate preparation

The substrate should be dry, free of loose particles as well as free of oil and grease. Contaminated, machine-trowled and unstable surfaces must be removed down to a coatable layer by scarifying or milling.

Application

Both components are mixed thoroughly until a homogeneous consistency is reached. Preferably, a mechanical stirring device (below 400 rpm) is used.

To avoid defects due to insufficient mixing, replot the material and mix it again.

The well conditioned and unfilled material is spread evenly using a rubber squeegee and intensively worked into the substrate using a paint roller. Then, the freshly coated surface is sanded with fire dried silica sand, 0.4 – 0.7 mm, covering the whole coated area taking care not to apply an excess amount.

In cases of strongly absorbent substrates, a second priming layer or alternatively a trowled on levelling priming layer may be necessary.

Scrape-levelling compounds or spreadable levelling mortars are applied using a trowel or scraper and are also sanded. Screeds are laid using guide rails, trowels, straight edges and walk-behind trowels.

Attention: The filler materials must be fire-dried. They must be added to the A-component only. Only then, the B-component is mixed in. The maximum grain size should not exceed $\frac{1}{3}$ of the layer thickness. During application, there must be a temperature difference to the dew point of at least +3 °C.

Consumption

Priming: 300 – 500 g / m² total consumption

Scrape-leveling compounds

1 : 1 filled with silica sand (grading curve 0.4 – 0.7 mm or 0.1 – 0.3 mm); consumption: 0.75 kg KÖSTER LF-BM / m² per mm layer thickness plus silica sand.

Levelling mortar

1 : 1.5 to 1 : 2.6 filled with fire-dried silica sand, minimum layer thickness 3 mm; consumption: 0.5 – 0.6 kg KÖSTER LF-BM / m² plus silica sand.

Screed

1 : 6 to 1 : 9 filled with silica sand (grading curve 0.1 – 0.3 mm (33 %) and 0.5 – 1.6 mm (67 %)); consumption: 0.3 – 0.5 kg KÖSTER LF-BM / m² per mm layer thickness plus silica sand. The screed is applied into the previously applied priming coat "fresh on fresh".

In case a top coating is required, the fresh screed is sanded with silica sand (grading curve 0.1 – 0.3 mm), recommended in order to achieve a good adhesion between layers.

Suggested formulation: 1 kg KÖSTER LF-BM
 plus 2 kg silica sand
 and 4 kg of coarse sand.

Cleaning of tools

Clean tools immediately after use with KÖSTER KB-Pox® Cleaner.

Packaging

25 kg, 5 kg and 1 kg combi package

Storage

Store the material frost-free at temperatures between 5 and 25 °C.

In originally sealed packages, it can be stored for approx. 12 months.

Safety

Wear protective gloves and goggles when processing the material.

Technical guidelines cited

KÖSTER KB-Pox® Cleaner Art. No. 9.08

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.