

- Industry classification "KB-Pox" registered at the German patent office, 395 06 702

2-component, solvent-free universal epoxy bonding agent

Features

KÖSTER KB-Pox® 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 KB-Pox® 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 tempered and unfilled material is spread evenly using a sponge rubber grafter 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-leveling 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 material 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 KB-Pox® 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 KB-Pox® 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 KB-Pox® LF-BM / m² per mm layer thickness plus silica sand.

The screed is applied into the previously applied priming coat "fresh in 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 KB-Pox® LF-BM
 plus 2 kg silica sand
 and 4 kg of coarse sand.

Cleaning of tools

Immediately after use with KÖSTER KB-Pox® Cleaner.

Packaging

25 kg, 5 kg and 1 kg combi package

Storage

Store frost-free at temperatures between 5 and 25 °C. In originally sealed packages, the material can be stored for approx. 12 months.

Safety

Wear protective gloves and goggles.

Technical guidelines cited

KÖSTER KB-Pox® Cleaner Art. Nr. 9.08

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