



## KÖSTER SB Bonding Emulsion

### Elasticizing synthetic-dispersion for universal use in mortars, plasters, sealing slurries, and concrete

#### Features

KÖSTER SB Bonding Emulsion is a universally usable synthetic liquid for all cementitious mortars, plasters, and sealing slurries. KÖSTER SB Bonding Emulsion is solvent, plasticizer, and filler-free. When added to mineral based systems, the synthetic liquid increases elasticity and flexibility and reduces water absorption.

KÖSTER SB Bonding Emulsion is waterproof which means that after its application it can neither be washed nor rained off.

#### Technical Data

Dry matter content	approx. 44 ± 1 %
pH-value	10.5 - 11.5
Viscosity	approx. 120 mPa·s
Specific gravity	approx. 1.00 g/cm <sup>3</sup>
Elongation at break	approx. 700 %
Breaking load	approx. 4.0 N / mm <sup>2</sup>
Application temperature	+ 2 °C to + 35 °C

#### Fields of Application

KÖSTER SB Bonding Emulsion can be used in all cases in which a good bond between mortars, plasters, sealing slurries, concrete and existing mineral substrates has to be achieved. As an additive to mineral systems, the synthetic additive causes a strong increase in flexibility and elasticity and at the same time a reduction of the water absorption. Due to the synthetic additive, cured mortars and plasters become considerably more resistant to frost, salts, and other aggressive substances. Additionally, KÖSTER SB-Bonding Emulsion improves the application properties and workability of fresh mortars.

#### Substrate

Remove dust and loose particles. Oil polluted and very dirty substrates have to be cleaned using suited cleaning agents and residues have to be rinsed off. If necessary, the substrate has to be ground, sand- or shot blasted. Avoid standing water on pre-wetted substrates.

#### Application

1. Additive to mortars, plasters, NB Sealing Slurries, and concrete  
Replace 10 - 20 % of the mixing water with KÖSTER SB-Bonding Emulsion.

#### 2. Cementitious bonding bridge

Mix KÖSTER SB Bonding Emulsion with water 1 : 2. Use this mixture to produce a slurry by mixing it with a cement / sand mixture (1 : 2 by volume) . These pre-pared mixtures are mixed until the desired consistency is reached. A simple mixing cup can be used to measure all volumes. Apply the slurry with a firm brush. Plasters and screeds are applied fresh in fresh. If used as a bonding bridge for sealing materials, a minimum curing time of 24 hours must be observed.

#### Aftertreatment

Curing can be aided by covering the hardened material with polyethylene sheets. This reduces surface shrinkage tension especially

when material has been applied in thick layers.

#### Consumption

Replaces 10 - 33% of mixing water

KÖSTER NB 1 Grey, all KÖSTER sealing slurries: For each 25 kg bag replace 1 - 2 kg of the mixing water with KÖSTER SB Bonding Emulsion.

KÖSTER Mortars: For each 25 kg bag approx. 800 ml KÖSTER SB Bonding Emulsion, and the required water given in each respective Technical Data Sheet.

For cementitious bonding bridges: approximately 200 g / m<sup>2</sup>.

#### Cleaning

Clean tools immediately after use with water.

#### Packaging

W 710 005	5 kg jerrycan
W 710 010	10 kg jerrycan
W 710 030	30 kg jerrycan

#### Storage

Store the material cool and frost-free. In originally sealed canisters it can be stored for a minimum of 2 years.

#### Safety

Avoid eye contact (wear protective goggles). Observe all governmental, state, and local safety regulations when processing the material. For Material Safety Data Sheet contact technical support or scan QR-code on label.

#### Related products

KÖSTER Repair Mortar NC	Prod. code C 535 025
KÖSTER Hydrosilicate Adhesive SK	Prod. code M 170 020
KÖSTER Restoration Plaster Grey	Prod. code M 661 025
KÖSTER Restoration Plaster White/Fast	Prod. code M 663
KÖSTER Restoration Plaster White/Light	Prod. code M 664 020
KÖSTER Hydrosilicate Board	Prod. code M 670
KÖSTER KD System	Prod. code W 219
KÖSTER NB 1 Grey	Prod. code W 221 025
KÖSTER NB 2 White	Prod. code W 222 025
KÖSTER NB 1 Fast	Prod. code W 223 025
KÖSTER NB Elastic Grey	Prod. code W 233 033
KÖSTER NB Elastic White	Prod. code W 234 033
KÖSTER Bikuthan 2C	Prod. code W 250 028
KÖSTER Repair Mortar	Prod. code W 530 025

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.