

## KÖSTER BD 50

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- Test report according to ZDB from the Material Testing Agency Dresden  
 - CE-certified according to ETAG 022 as part of the KÖSTER BD-System

### Solvent-free elastic waterproofing for damp- and wet rooms under tile

#### Features

KÖSTER BD 50 is a ready-for-use, solvent-free and easy to spread sealing compound for waterproofing surfaces under tile and coverings in damp and wet rooms. Once applied to the substrate, it cures to a highly flexible, waterproof synthetic foil which is highly elastic and crack-bridging. All customary solvent-free tile adhesives can be applied on top of KÖSTER BD 50. The tile can be laid in mortar or using the thick-bed or the standard thin-bed method.

#### Field of application

KÖSTER BD 50 forms an excellent seam- and jointless waterproofing under tile and coverings on wall- and floor-areas in damp and wet rooms, e.g. in shower rooms, bathroom, car washes, etc. KÖSTER BD 50 is the waterproofing layer under tile as part of the KÖSTER BD 50 System which is certified according to ETAG 022.

#### Substrate preparation

The substrate must be dry and clean, free of oil and grease, slip-proof and sound, as well as inherently stable and solid and level. Salt burdened substrates require priming with KÖSTER Polysil® TG 500 (consumption: approx. 130 g / m<sup>2</sup>). All other substrates are primed with KÖSTER BD Primer.

In both cases, KÖSTER BD 50 can be applied after approx. 3 hours of waiting time. Suited substrates are concrete, masonry, mineral plasters, porous concrete, fibreboards, gypsum, gypsum plaster boards and gypsum fibre boards, cement-, anhydrite- and magnesite-screeds and all kinds of ceramic coverings.

#### Application

Stirr KÖSTER BD 50 well prior to application. Apply KÖSTER BD 50 with brush or roller. We recommend roughening of non-absorbent surfaces by sanding prior to the application of KÖSTER BD 50. Corners and wall /floor junctions require additional application of KÖSTER BD Flex Tape K 120 with the first coat. Apply a second coat over the protruding edges of the mesh. Approx. 20 hours after the second coating, tile can be laid.

#### Consumption

Per coat: approx. 0.5 to 0.6 kg / m<sup>2</sup>  
 When applying the material using a roller, multiple coats are necessary.  
 Total consumption: approx. 1.0 kg / m<sup>2</sup>



#### Technical data

Viscosity	paste-like
Density	approx. 1.50 g / cm <sup>3</sup>
Application temperature	above + 5 °C
Colour	green
Airing time 1 <sup>st</sup> coat	approx. 3 hours
Thickness of wet layer 1 <sup>st</sup> and 2 <sup>nd</sup> coat	0.5 mm
Drying time 2 <sup>nd</sup> coat (prior to laying tile)	approx. 20 hours
Water vapour diffusion	7.6 g / m <sup>2</sup> d
Breaking load (N/mm <sup>2</sup> )	2.1 N / mm <sup>2</sup>
Elongation at break (%)	220 (at 23 °C)



#### **Cleaning of tools**

Clean tools immediately after use with water.

#### **Packaging**

20 kg bucket

#### **Storage**

Store the material cool but frost free. In originally sealed packages, it can be stored for approx. 12 months.

#### **Technical guidelines cited**

KÖSTER Polysil® TG 500	Art. No. 4.011
KÖSTER BD 50 Primer	Art. No. 7.091
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.