

KÖSTER

Technical guideline / Article number **3.039**

Issued: October 4, 2011

NB Elastic 1C White

- Engineered application test with negative water pressure by the MFPA Leipzig, Test report-number PB 5.1/08-415-2

1 component, elastic, mineral waterproofing

Features

KÖSTER NB Elastic 1C White is a light colored, waterproof, elastic, wear resistant waterproofing with excellent adhesion to all mineral substrates. The material bridges cracks, is abrasion resistant and resistant to water that can corrode concrete. Köster NB Elastic 1C White is resistant to negative water pressure up to 0.75 bar.

Technical data

Density (finished mixture)	approx. 1.4 g / cm ³
Color	light beige
Application temperature	min. + 2 °C
Adhesive tensile strength	> 0.5 N / mm ²
Pot life	approx. 2 hours
Resistant to foot traffic	after approx. 24 hours
Application of next layer	after approx. 24 hours
Crack bridging (2 mm layer thickness)	< 0.4 mm
Resistant to negative pressure	up to 0.75 bar

Field of application

Coatings made of KÖSTER NB Elastic 1C White are waterproof, elastic and wear resistant. It is a suitable material for areas subject to mechanical stresses and for areas which might be subject to cracking such as waterproofing layers on terraces and balconies, as protection for concrete surfaces which can be walked on, and wet- and damp rooms underneath tile and ceramic coverings.

If a waterproofing (2 layers) is made of KÖSTER NB Elastic 1C White, then the material can also be used (applied as a third layer) as tile adhesive. It is also suited for waterproofing against negative side water pressure.

Substrate preparation

The substrate has to be sound, solid, clean, and free of bond inhibiting substances and laitance.

Surfaces subject to negative pressure and absorbent substrates should be primed with KÖSTER Polysil® TG 500. Non-absorbent substrates are pre-wetted, being sure to avoid standing water or puddles.

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.

Application

Fill clean mixing water into a suitable container. Add the powder component to the mixing water and mix it in using a slowly rotating electrical stirring device. Make sure that the resulting consistency is lump-free. Per 25 kg bag of KÖSTER NB Elastic 1C White, 4.5 to 5.5 l of water is needed.

KÖSTER NB Elastic 1C White is applied in at least two coats using a trowel or brush.

On areas which are especially in danger of cracking, KÖSTER Flex Fabric or KÖSTER Glass Fiber Mesh is embedded into the fresh first layer. At least a second coat is applied.

In wall / floor junctions and in corners, KÖSTER BD Flex Tape K 120 is embedded into the first layer and the protruding fabric is worked over with KÖSTER NB Elastic 1C White.

When continually exposed to sunlight, discoloration is possible.

Consumption (MDLT = Minimum Dry Layer Thickness)

Loading condition	MDLT	Total consumption	
		Layers	
Ground water	2 mm	min. 3.0 kg	min. 2
Non retained seepage	2 mm	min. 3.0 kg	min. 2
Retained seepage	2.5 mm	min. 3.5 kg	min. 2
At Wall / Floor junction	2 mm	min. 3.0 kg	min. 2
Negative water pressure	2.8 mm	min. 4.0 kg	min. 2

Cleaning tools

Clean tools immediately after use with water.

Packaging

25 kg bag

Storage

Store the material in a cool and frost free environment. In originally sealed packages the material can be stored for 12 months.

Safety precautions

Wear protective gloves and goggles during processing and application.

Technical guidelines cited

KÖSTER Polysil® TG 500	Art.-No.	4.011
KÖSTER BD Flex Tape K 120	Art.-No.	11.03
KÖSTER Glass Fiber Mesh	Art.-No.	11.01
KÖSTER Flex Fabric	Art.-No.	11.05

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.