

KÖSTER NB 1 "Fast"

Technical guideline / Art.-No. **3.023**
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Fast curing mineral water proofing resistant to pressurised water

Features

KÖSTER NB 1 "Fast" is a mineral coating containing crystallising and capillary-plugging agents. It can be used for waterproofing against ground moisture, non-pressurised and pressurised water in combination with KÖSTER Polysil® TG 500.

KÖSTER NB 1 "Fast" is fast setting and can be exposed quickly to stresses from water.

Technical data

Density of fresh mortar	1.75 kg / l
Compressive strength (3 hrs, 20 °C)	> 2.5 N / mm ²
Compressive strength (24 hrs, 20 °C)	> 7.0 N / mm ²
Compressive strength (7 days, 20 °C)	> 13.0 N / mm ²
Flexural tensile strength (7 days)	> 3.0 N / mm ²
Adhesive tensile strength	> 1.5 N / mm ²
Waterproof against pressurised water (positive side)	up to 5 bar
Pot life	approx. 15 min
Application of mineral coatings	after approx. 30 min
Resistant to foot traffic	after approx. 3 hrs
Full cure	after approx. 24 hrs

Field of application

KÖSTER NB 1 "Fast" can be used for waterproofing horizontal and vertical surfaces in new building and repair for positive-side as well as negative-side water proofing.

Preparation of substrate

The mineral substrate has to be sound and solid as well as free of grease and oil. Prior to application of KÖSTER NB 1 "Fast", the substrate has to be primed by spraying on KÖSTER Polysil® TG 500

Application

The material must be mixed using a slow speed mixer whereby the powder should be added to the mixing water. The material is applied in at least two coats with a brush or a suited spraying device. The regulations of DIN 1045 have to be observed, meaning that heat, frost and strong wind impact during the application and for at least 24 hours afterwards have to be avoided. A 25 kg bag of KÖSTER NB 1 "Fast" is mixed with 9 l of water.

Negative side waterproofing in case of repair of widespread moisture penetration

Brittle and loose material has to be cleaned out of joints and joints have to be closed flush with KÖSTER Repair Mortar Plus. After a waiting time of approx. 2 hours, the surface, which is going to be sealed, has to be primed with KÖSTER Polysil® TG 500 (Consumption: min. 120 g / m², in case of strongly absorbent substrates up to 250 g / m²). After a waiting time of 15 minutes, the first coat of KÖSTER NB 1 "Fast" is applied (Consumption: approx. 2 kg / m²). Immediately afterwards, a second coat of KÖSTER NB 1 "Fast" is applied (Consumption: 2 kg / m²). Immediately after finishing the application of the second coating, the coating is hardened by spraying on KÖSTER Polysil® TG 500.

Consumption

protection against ground moisture:	min. 3 kg / m ² (2 coats)
protection against non-pressurised water:	min. 3 kg / m ² (2 coats)
protection against pressurised water:	min. 4 kg / m ² (2 coats)
negative side water proofing:	min. 4 kg / m ² (2 coats)

Cleaning of tools

Clean tools with water immediately after use

Packaging

25 kg bag

Storage

Store the material dry; in originally sealed packages, it can be stored for approx. 12 month.

Safety precautions

Wear protective gloves and goggles when processing the material.

Technical guidelines cited

KÖSTER Polysil® TG 500	Art.-No.	4.011
KÖSTER Repair Mortar Plus	Art.-No.	5.032

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.