KÖSTER NB 1 Fast

Technical Data Sheet W 223 025

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Fast curing mineral water proofing resistant to pressurized water

Features

KÖSTER NB 1 “Fast” is a mineral coating containing crystallising and capillary-plugging ingredients. It can be used for waterproofing against ground moisture, pressurized and non-pressurized water inside an outside.
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 / mm²
Compressive strength (24 hrs, + 20 °C)	> 7.0 N / mm²
Compressive strength (7 days, + 20 °C)	> 13.0 N / mm²
Flexural tensile strength (7 days)	> 3.0 N / mm²
Adhesive tensile strength	> 1.5 N / mm²
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

Fields 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.

Substrate

The substrate must be sound and solid, free of oil and paint as well as free of loose particles. Screed, plasters, and the like must be removed down to a solid material base, (masonry/concrete). Masonry joints must be raked out 2 cm deep. Dry substrates must be wetted thoroughly repeatedly prior to the beginning of the system application. Fill holes and open joints with KÖSTER Repair Mortar or with KÖSTER Waterstop. Prior to application of KÖSTER NB 1 “Fast”, the substrate has to be primed by spraying on KÖSTER Polysil TG 500.
On porous concrete, Autoclaved Aerated Concrete, or on soft brick, a sound plaster made of KÖSTER Repair Mortar has to be applied.
Unsuitable substrates are:
- plasters containing lime,
- paint coatings,
- building materials containing gypsum.

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.

Aftertreatment

In case the substrate sucks the water from the freshly applied material too quickly or it dries prematurely from sun, wind, or heat, mist spray the KD System so that it remains dark.

Consumption

1.5 - 4.0 kg/m²

Cleaning

Clean tools immediately after use with water.

Packaging

W 223 025	25 kg bag

Storage

Store the material in a dry environment. In originally sealed packages, the material can be stored for a minimum of 12 months.

Safety

Wear protective gloves and goggles when processing the material. Observe all governmental, state, and local safety regulations when processing the material.

Related products

KÖSTER Polysil TG 500	Prod. code M 111
KÖSTER Restoration Plaster White/Fast	Prod. code M 663 030
KÖSTER SD Protection and Drainage Sheet 3-400	Prod. code W 901 030
KÖSTER NB 1 Brush for slurries	Prod. code W 913 001
KÖSTER Double Paddle Mixer	Prod. code X 992 001
KÖSTER Disc Stirrer	Prod. code X 996 001
KÖSTER Mortar Stirrer Set	Prod. code X 998 001

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.

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