KÖSTER
Waterproofing Systems

W - Waterproofing systems

KÖSTER Restoration Slurry

Technical Data Sheet W 225 025

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Surface coating for sulphate damaged wall and floor surfaces and for protection against sulphate containing ground water

Features
KÖSTER Restoration Slurry is a hydraulically reacting powder for sealing surfaces against ground moisture, non-pressurized and pressurized water up to 5 m head. KÖSTER Restoration Slurry penetrates deeply into the substrate, fills or plugs capillaries and is frost and seawater resistant after full cure. It is free of soda and chlorides. The material possesses high mechanical strength and is resistant to chemical and mechanical stresses. The coating is alkali reactive and highly resistant against sulphates, it can be stressed early and it prevents efflorescence.
Due to the deep penetration into the substrate, easily soluble salts are transformed into hardly soluble and therefore harmless compounds.
Coatings made of KÖSTER Restoration Slurry should only be applied to structures which are free of cracks and which are unlikely to crack in future. If this is not the case, adequate precautions have to be taken.

Technical Data

Density of the fresh mortar	1.9 kg / l
Compressive strength (7 days)	>20 N / mm²
Compressive strength (28 days)	> 35 N / mm²
Flexural tensile strength (7 days)	> 5.0 N /mm²
Flexural tensile strength (28 days)	> 5.5 N / mm²
Adhesive tensile strength	> 1.5 N / mm²
Pot life	approx. 2 hours
Resistant to pedestrian traffic	approx. 24 hours
Full cure	approx. 2 weeks

Fields of Application
KÖSTER Restoration Slurry is suited for sealing horizontal and vertical areas on all mineral substrates such as concrete, masonry, and cementitious plaster. It is also suited for sealing new basements, tanks, underground car parks, silos, sewage treatment plants, manholes, etc.

Substrate
The mineral substrate has to be level, clean and sound. Substances which can adversely affect adhesion such as bitumen, paint, oil, etc. have to be mechanically removed. External corners and edges have to be chamfered; internal corners are rounded out with fillets made of KÖSTER Repair Mortar prior to application. Pre-wet thoroughly. Strongly absorbent substrates have to be primed with KÖSTER Polysil® TG 500.

Application
Mix KÖSTER Restoration Slurry with clean water into a homogeneous, creamy, easily spreadable mass. Slowly add the powder into the water while continuously mixing with a slow speed electrical mixer, (under 400 RPM).
The slurry has to be applied with a firm brush in at least two coats.
Between layers, a waiting time of min. 3 hours and max. 24 hours must be observed. The application temperature must be min. + 5 °C.
The regulations of the DIN 1045 have to be observed which means that exposure to heat, frost, and strong wind has to be avoided during application and for at least 24 hours after application.

7 to 8 liters of mixing liquid are required per 25 kg sack. The liquid to be added consists of clean tap water or 4 parts of water and 1 part of KÖSTER SB Bonding Emulsion. (For 7 liters of liquid to be added 1.4 kg of KÖSTER SB Bonding Emulsion and 5.6 liters of water, for 8 liters of liquid to be added 1.6 kg of KÖSTER SB bonding Emulsion and 6.4 liters of water).

Consumption
approx. 2 - 4 kg/m²;

Storage
Store the material dry; in originally sealed packages it can be stored for min. 12 months.

Safety
The material contains cement. It reacts alkaline. Protect skin and eyes during processing. After contact, rinse off material thoroughly with water.

Other
Please note
Treated surfaces - which will be plastered or tiled later on - have to be coated with a bonding bridge or with a plaster key using the KÖSTER SB-Bonding Emulsion.

Related products

KÖSTER Polysil TG 500	Prod. code M 111
KÖSTER Repair Mortar	Prod. code W 530 025
KÖSTER SB Bonding Emulsion	Prod. code W 710
KÖSTER NB 1 Brush for slurries	Prod. code W 913 001

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