



KÖSTER Restoration Slurry

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 / mm ²
Compressive strength (28 days)	> 35 N / mm ²
Flexural tensile strength (7 days)	> 5.0 N / mm ²
Flexural tensile strength (28 days)	> 5.5 N / mm ²
Adhesive tensile strength	> 1.5 N / mm ²
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
KÖSTER Repair Mortar
KÖSTER SB Bonding Emulsion
KÖSTER NB 1 Brush for slurries

Prod. code M 111
Prod. code W 530 025
Prod. code W 710
Prod. code W 913 001

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.