




KÖSTER Repair Mortar

Technical Data Sheet W 530 025

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RCC Test report N 141-3-81 Product Identification Characteristics according to BDS EN 1015 parts 10,11,18,21

Fillet, repair and water-repellent finishing mortar

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 13 W 530 EN 998-1:2010 Normal Plaster Mortar (R) EN 998-1:2010 ZA.1
Compressive strength 28 d	CS IV
Capillary water uptake	W0
Tensile strength	≥ 1.5 N/mm ² failure type A/B
Dry density	1.50 - 1.80 kg/dm ³
Depth of water penetration	NPD
Coefficient of water vapor permeability	μ ≥ 20
Reaction to fire	A1

Features

KÖSTER Repair Mortar is a watertight repair mortar and plaster with excellent adhesion even to old building material substrates. With the addition of KÖSTER SB Bonding Emulsion, it can be used as PCC (polymer-modified cement concrete) mortar.

Technical Data

Density of fresh mortar	1.8 kg / l
Compressive strength after 24 hours	> 10 N / mm ²
Compressive strength after 7 days	> 18 N / mm ²
Compressive strength after 28 days	approx. 35 N / mm ²
Flexural tensile strength after 24 hours	> 2,5 N / mm ²
Flexural tensile strength after 7 days	> 4 N / mm ²
Flexural tensile strength after 28 days	> 6 N / mm ²
Working time (+ 20 °C)	approx. 3 hours
Ideal working temperature	+2 to +30 °C
Application of next layer	after approx. 24 hours
E-Modulus	approx. 19.000 N / mm ²
Max. aggregate size	approx. 1.5 mm
Adhesive tensile strength	> 1,5 N / mm ²

Fields of Application

For carrying out watertight repairs and touch up, for the creation of water-repellent plasters; for concrete repair. For evening out rough surfaces or joints prior to the application of bitumen thick film sealants, even under pressurized water. It can be used for fillets in the wall / floor junction which are stressed by pressurized water prior to the application of bitumen thick film sealants (KÖSTER Bikuthan 2C, KÖSTER Bikuthan 1C, KÖSTER Deuxan 2C) and mineral-based coatings (KÖSTER KD System, KÖSTER NB 1 Grey, KÖSTER NB systems, etc).

Substrate

The surface has to be sound and solid, free of oil and grease. The

material can be applied to all mineral substrates. Before installing the fillet on the external basement wall, brush on KÖSTER NB 1 Grey (consumption approx. 4 kg / m²). If larger surfaces are to be plastered, a plaster key made of repair mortar and water / KÖSTER SB-Bonding-Emulsion (25 % admixture to the mixing water) should be applied beforehand.

When installing mortars substrate preparation is of vital importance. Pre-wet all mineral substrates before the installation of KÖSTER Repair Mortar. The surface near the pore structure must be saturated, (avoiding standing water and puddles) so that it does not absorb water from the applied mortar. Highly absorbent substrates can be primed with KÖSTER Polysil TG 500.

Application

Mix 25 kg of KÖSTER Repair Mortar with 2.5 - 3.0 l water + 0.8 l of KÖSTER SB-Bonding Emulsion. The mortar has a pot life of approx. 3 hours. Apply KÖSTER Repair Mortar using customary mason tools. The material can also be prepared without the use of KÖSTER SB-Bonding Emulsion; in this case, add 1 liter of water instead.

Installation of fillets (stressed by pressurized water): The substrate has to be primed with KÖSTER NB 1 Grey (consumption: approx. 4 kg / m²). Allow the KÖSTER NB 1 Grey to cure for at least 24 hours. Now the fillet can be installed (leg length of approx. 4 - 6 cm) using KÖSTER Repair Mortar (25 kg of KÖSTER Repair Mortar mixed with 2.5 - 3.0 l water + 0.8 l KÖSTER SB-Bonding Emulsion). After another 24 hours, the fillet can be coated with KÖSTER bitumen thick film waterproofings (e.g. KÖSTER Deuxan 2C).

Aftertreatment

Curing can be aided by covering the hardened material with polyethylene sheets. This reduces surface shrinkage tension especially when the material has been applied in thick layers.

Consumption

Approx. 1.8 kg/l void
 Approx. 18 kg / m² per cm of layer thickness of the plaster
 Approx. 2.5 kg / meter of fillet

Cleaning

Clean tools immediately after use with water.

Packaging

W 530 025 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.

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.

Related products

KÖSTER Polysil TG 500	Prod. code M 111
KÖSTER Hydrosilicate Adhesive SK	Prod. code M 170 020
KÖSTER Restoration Plaster Grey	Prod. code M 661 025
KÖSTER Restoration Plaster White/Fast	Prod. code M 663
KÖSTER Restoration Plaster White/Light	Prod. code M 664 020
KÖSTER Hydrosilicate Board	Prod. code M 670
KÖSTER Dachflex	Prod. code R 260 020
KÖSTER KD System	Prod. code W 219
KÖSTER NB 1 Grey	Prod. code W 221 025
KÖSTER NB 2 White	Prod. code W 222 025
KÖSTER NB Elastic Grey	Prod. code W 233 033
KÖSTER NB 4000	Prod. code W 236 025
KÖSTER KBE Liquid Film	Prod. code W 245
KÖSTER Bikuthan 2C	Prod. code W 250 028
KÖSTER Bikuthan 1C	Prod. code W 251 030
KÖSTER Deuxan 2C	Prod. code W 252 032
KÖSTER SB Bonding Emulsion	Prod. code W 710

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