




KÖSTER Restoration Plaster White

Technical Data Sheet M 662 025

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- Test report according to DIN EN 998-1, MPA BAU Hannover
 - Test report according to the WTA data sheet 2-9-04/D, MFPA Leipzig 2013

White salt- and moisture resistant restoration plaster for inside and outside use for manual or machine application

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 13 M 662 EN 998-1:2010 Restoration Plaster (R) EN 998-1:2010 ZA.1
	Compressive strength 28 d CS II Capillary water uptake > 0.3 kg/m ² after 24 h Tensile strength 0.05 N/mm ² failure type A Dry density 1.05 kg/dm ³ Depth of water penetration ≤ 5 mm Coefficient of water vapor permeability μ 15 Reaction to fire A1

area up to 30 cm above ground level.

Substrate

Suitable substrates include concrete, masonry consisting of brick, natural stone, porous concrete block, perforated brick, mixed masonry, etc., sealing slurries such as KÖSTER NB 1 Grey, KÖSTER NB 2 White, or the KÖSTER KD-System. Loose particles and salt efflorescence should be removed mechanically prior to the beginning of the restoration. Prior to the application of KÖSTER Restoration Plaster White, the substrate is primed with KÖSTER Polysil TG 500 with a minimum consumption of 120 g / m². Apply the KÖSTER Polysil TG 500 until the surface is saturated. In the case of strongly absorbent substrates the consumption can be up to 250 g / m². Substrates previously treated with a KÖSTER NB Waterproofing Slurry do not require a subsequent application of KÖSTER Polysil TG 500. Substrates containing gypsum are not suitable substrates and the gypsum must be removed.

Features

KÖSTER Restoration Plaster White is a salt and pressure resistant restoration plaster for the restoration of heavily moisture and salt burdened substrates. Due to its high porosity and hydrophobicity, KÖSTER Restoration Plaster White allows for the damage free drying and de-salting of masonry even in the case of high salt contents. It improves the insulative properties of the wall and therefore helps prevent the formation of condensate. KÖSTER Restoration Plaster White is free of light fillers and therefore requires no further surface treatment prior to the application of breathable paints or wallpaper which is open to vapor diffusion.

Technical Data

Density of fresh mortar	1.3 kg / l
Porosity of fresh mortar	34 V-%
Compressive strength (7 days)	> 5 N / mm ²
Flexural tensile strength (28 days)	> 2.5 N / mm ²
Porosity of cured plaster	approx. 41 V-%
Setting time	approx. 3 hours
Working time (23 °C, 65 % RH)	approx. 30 minutes
Modulus of elasticity	> 6000 N / mm ²
Minimum application temperature	+ 5 °C
Water consumption per 25 kg bag	3.1 - 3.6 l

Fields of Application

KÖSTER Restoration Plaster White is suitable for the repair of moisture and salt damaged masonry, also after the post installation of a horizontal barrier with KÖSTER Crisin 76, KÖSTER Mautrol, KÖSTER Mautrol 2C, or KÖSTER Mautrol Flex 2C. It can be applied to reduce the formation of condensate after waterproofing rooms with high humidity using mineral sealing slurries such as the KÖSTER KD System or KÖSTER NB 1 Grey.

KÖSTER Restoration Plaster White can also be used as a water repellent exterior plaster. In the case of exterior application we recommend the application of KÖSTER Repair Mortar on the base

Application

KÖSTER Restoration Plaster Key

A plaster key is a thin slurry which is used as a bonding bridge between the substrate and the Restoration Plaster. The KÖSTER Restoration Plaster Key is cast onto the substrate with a brush or a trowel (Consumption approx. 4-6 kg / m²) so that the plaster key is no thicker than 5 mm and covers approximately 50% of the area. After hardening (approx. after 30 to 60 minutes) the Restoration Plaster can be applied. The key can also be made of KÖSTER Restoration Plaster White with the addition of max. 10% KÖSTER SB Bonding Emulsion added to the mixing water (Consumption approx. 3 kg / m²).

Mixing

Each 25 kg bag is mixed with 3.1 l to 3.6 l of clean potable water. Put 2.5 l of water in a clean mixing vessel and add the powder in portions while continually mixing using a slow speed mechanical compulsory mixer (under 400 rpm). Add in portions as much of the remaining water as necessary to achieve the desired consistency and mix until the mortar has a homogeneous texture. Mixing time is 3 minutes after all powder has been added to the liquid.

Machine Application

When using automatic mortar / plaster mixing machines, the water must be adjusted that a workable consistency is achieved. The adjustments are dependent on the machine, static rotor mixer type, and the condition / age of the rotor. The following example is to show basic parameters, and must be tuned to jobsite conditions.

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.

KÖSTER

Waterproofing Systems

M - Restoration of masonry

Machine
Stator/Rotor
Attachments
Hose

PFT G4
Twister D4-2 LP
Aftermixer Rotoquirl
25 mm hose, 10 m

KÖSTER Fine Plaster
KÖSTER Façade Cream
KÖSTER Silicone Paint White
KÖSTER KD System
KÖSTER NB 1 Grey
KÖSTER NB 2 White
KÖSTER Repair Mortar
KÖSTER Waterstop
KÖSTER SB Bonding Emulsion
KÖSTER NB 1 Flex

Prod. code M 655 025
Prod. code P 200
Prod. code P 260 010
Prod. code W 219
Prod. code W 221 025
Prod. code W 222 025
Prod. code W 530 025
Prod. code W 540 015
Prod. code W 710
Prod. code W 721 008

Waterproofing against pressurized and actively flowing water is carried out using the KÖSTER KD System. Approx. 24 hours after finishing the waterproofing, the Restoration Plaster Key is applied. After another 24 hours, KÖSTER Restoration Plaster White can be applied on top of the Restoration Plaster Key. After smoothing and curing, the surface of the restoration plaster can be covered with paints and wallpapers which are open to vapor diffusion without further pre-treatment.

When waterproofing against non-pressurized water and pressurized water without active leakages using KÖSTER NB 1 Grey and KÖSTER Polysil TG 500, the restoration plaster is thrown directly onto the last not yet cured layer of slurry without prior application of a plaster key.

Aftertreatment

If aftertreatment is required or desired, for example due to very dry conditions, the plaster can be treated according to the general practice for mortars, such as covering with a thin PE sheet.

Consumption

Approx. 12 kg / m²; per cm layer thickness

On uneven surfaces additional consumption may have to be considered for levelling the surface.

Cleaning

Clean tools immediately after use with water.

Packaging

M 662 025 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.

Other

Shrinkage / hairline cracks are not a defect as they are harmless and do not affect the system properties. KÖSTER Restoration Plasters contain quartz sand which, as natural raw materials, can contain traces of pyrite or other inclusions.

Related products

KÖSTER KB-Fix 5	Prod. code C 515 015
KÖSTER Polysil TG 500	Prod. code M 111
KÖSTER Restoration Plaster Key	Prod. code M 154 025
KÖSTER Mautrol Liquid Sealant	Prod. code M 241
KÖSTER Mautrol 2C	Prod. code M 261
KÖSTER Mautrol Flex 2C	Prod. code M 262 020
KÖSTER Crisin Cream	Prod. code M 278
KÖSTER Crisin 76	Prod. code M 279

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