




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

	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. 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. KÖSTER Polysil TG 500 should be applied to a substrate previously treated with a KÖSTER NB Waterproofing Slurry after 48 hours at the earliest. Loose particles and salt efflorescence should be removed mechanically prior to the beginning of the restoration. 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

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.

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

Directly after priming the substrate with KÖSTER Polysil TG 500 the Restoration Plaster Key is applied (consumption: approx. 3 kg / m²) After hardening the KÖSTER Restoration Plaster White is applied. The plaster is usually applied in two coats with a total layer thickness of approx. 2.5 cm; the thickness should be at least 2 cm. After casting the plaster onto the substrate, it is trued using a feather edge, a straight edge, or a long float trowel. Once the plaster starts to set it is smoothed using a float. If several layers of plaster are to be applied, the lower layer is roughened thoroughly by scratching immediately after it begins

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to set.

Interior surfaces can be smoothed using KÖSTER Fine Plaster. KÖSTER Fine Plaster must be applied either within 48 hours after the application of the last coat of KÖSTER Restoration Plaster White or after the restoration plaster has cured for 28 days. Paint can be applied after 7 days.

Restoration against rising damp

Prior to the restoration of areas using the KÖSTER Restoration Plaster System, the waterproofing against rising damp (capillary wicking moisture in the wall) must be completed. For this refer to the following technical guidelines: KÖSTER Mautrol, KÖSTER Mautrol 2C, KÖSTER Mautrol Flex 2C, or KÖSTER Crisin 76. Immediately after closing the boreholes with KÖSTER KB-Fix 5, the salt treatment and substrate strengthening using KÖSTER Polysil TG 500 is carried out (minimum consumption is 120 g / m², in the case of strongly absorbent substrates up to 250 g / m²). Directly after that, the Restoration Plaster Key is applied (Consumption: approx. 3 kg / m²) on top of which - after another 24 hours of waiting time - KÖSTER Restoration Plaster White is applied in one or two layers with a minimum thickness of 2.0 cm.

Reduction of condensate formation (subsequent measure when using the KÖSTER KD-System and KÖSTER NB 1 Grey)

The 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 Concentrate	Prod. code M 279
KÖSTER Fine Plaster	Prod. code M 655 025
KÖSTER Façade Cream	Prod. code P 200
KÖSTER Silicone Paint White	Prod. code P 260 010
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 Repair Mortar	Prod. code W 530 025
KÖSTER Waterstop	Prod. code W 540 015
KÖSTER SB Bonding Emulsion	Prod. code W 710
KÖSTER NB 1 Flex	Prod. code W 721 008

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