




KÖSTER Restoration Plaster White/Fast

Technical Data Sheet M 663

Issued: 2021-10-21

- Test report according to DIN EN 998-1, MPA BAU Hannover

Fast setting, white, salt- and moisture resistant restoration plaster for inside and outside use

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 13 M 663 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 nach 24 Std Tensile strength 0.41 N/mm ² failure type B Dry density 1.45 kg/dm ³ Depth of water penetration ≤ 5 mm Coefficient of water vapor permeability μ 15 Reaction to fire A1

Features

KÖSTER Restoration Plaster White/Fast is a fast setting, 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/Fast 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/Fast 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

Porosity of fresh mortar	> 28 V-%
Porosity of cured plaster	> 40 V-%
Compressive strength (28 days)	> 8 N / mm ²
Flexural tensile strength (28 days)	> 3 N / mm ²
E-Modul	> 7000 N/mm ²
Setting time	approx. 30 minutes
Working time (23 °C, 65 % RH)	approx. 20 minutes
Minimum application temperature	+ 5 °C
Water consumption per 30 kg bag	4.0 - 4.2 l

Fields of Application

KÖSTER Restoration Plaster White/Fast 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. Especially for use in the KÖSTER Fast Restoration System which is comprised of KÖSTER Mautrol Flex 2C, KÖSTER NB 1 Fast and KÖSTER Restoration Plaster White/Fast. It is mainly used for small area waterproofing and restoration projects where a fast succession of work steps is necessary. 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/Fast can also be used as a decorative water repellent exterior plaster. In the case of exterior

application we recommend the application of KÖSTER Repair Mortar on the base area up to 30 cm above ground level.

Substrate

Masonry made of bricks, natural stone, autoclaved aerated concrete, honeycomb brick, mixed masonry, etc. and rigid waterproofing slurries (such as KÖSTER NB 1 Grey). Flaking substrates and salt efflorescence are cleaned off. Fill drill holes with KÖSTER KB-Fix 5. Bind salts in the substrate while hardening and consolidating it with KÖSTER Polysil TG 500. Substrates previously treated with KÖSTER NB Waterproofing Slurries do not require subsequent application of KÖSTER Polysil TG 500.

Immediately following the priming with KÖSTER Polysil TG 500, KÖSTER Restoration Plaster Key (approx. 4 - 6 kg / m²) is applied. The layer thickness should not exceed 5 mm with a coverage of 50%. After a hardening time of 30 to 60 minutes KÖSTER restoration plaster is applied. Alternatively, a plaster key from KÖSTER Restoration plaster white / fast (mixed with KÖSTER SB Bonding Emulsion (diluted 1: 3 with water)) is applied, Consumption: approx. 3.5 - 4.0 kg / m², waiting time at least 24 hours.

Application

KÖSTER Restoration Plaster white/fast is mixed with approx. 3.0 - 3.5 l water per bag to form a workable mortar, if possible using a compulsory mixer. A mixing time of 3 minutes must be observed. The plastering is done in one layer with a total plaster thickness of up to approx. 2.5 cm; The minimum plaster thickness should be at least 2 cm and the maximum layer thickness should be 3 cm. For layers thicker than 2.5 cm, it is recommended to apply in two layers. After application, the restoration plaster is struck with a level or a straight edge. After sufficient hardening (depending on temperature and humidity after approx. 30 - 60 minutes), the top coat can be floated with a wood or plastic float. Floating with a felt or sponge board is not permitted. After the first floating do not moisten and re-float.

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/Fast or after the restoration plaster has cured for 28 days.

Repair against rising damp

Immediately after closing the drill holes from the horizontal barriers with KÖSTER KB-Fix 5, the salt treatment and substrate consolidation can be carried out with KÖSTER Polysil TG 500 (minimum consumption 120 g / m², for strongly absorbent substrates up to 250 g / m²). After priming, the KÖSTER Restoration Plaster Key can be applied (3 kg / m²), followed approx. 24 hours later by the KÖSTER Restoration Plaster White/Fast in a one or two layer with a minimum thickness of 2 cm. The Key Coarse can also be made of KÖSTER Restoration Plaster White/Fast by mixing 10% of KÖSTER SB Bonding Emulsion into the mixing water.

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.

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Waterproofing Systems

Reduction of condensation (after waterproofing with the KÖSTER KD method or KÖSTER NB 1 grey):

KÖSTER SB Bonding Emulsion
KÖSTER NB 1 Flex

Prod. code W 710
Prod. code W 721 008

Waterproofing against flowing and pressurized water must be carried out with the KÖSTER KD System. When waterproofing against non-pressurized or pressurized water but without active water ingress, KÖSTER NB 1 and KÖSTER Polysil TG 500 are used. Approximately 24 hours after the waterproofing has been placed, the Key Coarse can be installed. After another 24 hours, the KÖSTER Restoration Plaster White/Fast can be applied. The restoration render surface obtained after rubbing and hardening can be reworked without further pretreatment with paints and wallpapers opened to vapor diffusion.

Aftertreatment

For interior surface design we recommend KÖSTER Fine Plaster. The KÖSTER Fine Plaster must be installed within 3 days of the sub-plaster or after curing for 28 days. Likewise, the restoration plaster surface can be overworked without further pretreatment with breathable paints and wallpaper.

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 663 025 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, goggles, and dust mask 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 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 Crisin Cream	Prod. code M 278
KÖSTER Crisin 76	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 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 Repair Mortar	Prod. code W 530 025

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