



KÖSTER Restoration Plaster Grey/Light

Technical Data Sheet M 666 020

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Grey, light, salt-resistant restoration plaster for the repair of moisture and salt burdened substrates

Features

KÖSTER Restoration Plaster Grey/Light is a salt and pressure resistant restoration plaster for the restoration of heavily moisture and salt burdened substrates, especially after the installation of a horizontal barrier. Due to its high porosity and hydrophobicity, KÖSTER Restoration Plaster Grey allows for the damage free drying and desalting 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 Grey/Light 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	1.0 kg / l
Porosity of fresh mortar	> 30 Vol.-%
Compressive strength (7 days)	< 10 N / mm ²
Flexural tensile strength (28 d)	> 3 N / mm ²
Porosity of cured plaster	> 40 Vol.-%
Setting time	approx. 3 hours
Water uptake	< 5 mm
Water requirement per 25 kg bag	4.8 - 5.6 kg

Fields of Application

KÖSTER Restoration Plaster Grey/Light 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 Grey/Light 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 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 Grey/Light, 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. 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.

Application

KÖSTER Restoration Plaster Key Course

Directly after priming the substrate with KÖSTER Polysil TG 500 the key coarse is applied. The key coarse is made of KÖSTER Restoration Plaster Grey/Light and KÖSTER SB Bonding Emulsion diluted in water on a ratio 1 : 3. The Key Coarse is cast onto the substrate with a brush or a trowel so that the plaster key is no thicker than 5 mm and covers approximately 50% of the area (Consumption approx. 2,5 - 3,0 kg / m²). Alternatively, the KÖSTER Restoration Plaster Key Coarse can be used (Consumption approx. 4 - 6 kg / m²). After hardening (approx. 30 to 60 minutes) the KÖSTER Restoration Plaster Grey/Light can be applied

Mixing

One 25 kg bag is mixed with 4.8 l to 5.6 l of clean potable water. Put approx. 4.2 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 plaster has a homogeneous texture. Mixing time is 3 minutes after all powder has been added to the liquid.

Directly after priming the substrate with KÖSTER Polysil TG 500 the Restoration Plaster Key is applied (consumption: approx. 3 kg / m²). After 24 hours of waiting time the KÖSTER Restoration Plaster Grey/Light 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 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 Grey or after the restoration plaster has cured for 28 days. Paint can be applied after 7 days.

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.

Machine	PFT G4
Stator/Rotor	Twister D4-2 LP
Attachments	Aftermixer Rotoquirl
Water adjustment	approx. 200
Hose	25 mm hose, 10 m

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.

