

KÖSTER Restoration Plaster 2 “Light”

Technical guideline / Article number **5.064**
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- Test report according to DIN EN 998-1, MPA Bau Hannover (Material testing agency –Construction – Hannover)

White, light restoration plaster for renovation of salt-damaged and moisture-penetrated masonry

Features

KÖSTER Restoration Plaster 2 “Light” is a salt-resistant, white, light restoration plaster for plane restoration of strongly moisture- and salt-burdened substrates. Due to its porosity and its hydrophobicity, KÖSTER Restoration Plaster 2 “Light” permits the damage-free drying and de-salting of masonry even in cases of high salt burdens.

Technical data

Air void contents (fresh mortar)	> 30 vol-%
Compressive strength	> 3.0 N / mm ²
Flexural tensile strength	approx. 1.4 N / mm ²
Porosity	> 40 vol-%
Starts to set	after approx. 2 hours

Field of application

KÖSTER Restoration Plaster 2 “Light” is designed for the repair of moisture- and salt-damaged masonry, especially after installation of a horizontal barrier. The system can be applied to masonry with all moisture- and salt-burdens.

KÖSTER Restoration Plaster 2 “Light” can also be used as water-repellent exterior plaster. In this case, it is recommended to first apply a plaster made of KÖSTER Repair Mortar to the base area up to 30 cm above terrain.

Substrate preparation

KÖSTER Restoration Plaster 2 “Light” can be applied to masonry made of brick, natural stone, plan blocks, vertically perforated brick, mixed masonry etc. sealing slurries (e. g. KÖSTER NB 1 Grey or NB 2 White, KÖSTER KD-System). Prior to the renovation, loose particles and salt efflorescence must be removed mechanically. Also prior to the plastering with KÖSTER Restoration Plaster 2 “Light”, the substrate is primed with KÖSTER Polysil® TG 500 (min. consumption 120 g / m², in case of strongly absorbent substrates up to 250 g / m²).

Application

Directly after priming the substrate with KÖSTER Polysil® TG 500, a plaster key made of KÖSTER Restoration Plaster 2 “Light” and KÖSTER SB Bonding Emulsion “Concentrate” (1 : 3 diluted with water) is applied. The resulting layer should be approx. 5 mm thick and should reach a coverage of 50 % (consumption: approx. 2.5 – 3.0 kg / m²).

After allowing the plaster key to cure for 24 hours, the final rendering made of KÖSTER Restoration Plaster 2 “Light” can be applied.

KÖSTER Restoration Plaster 2 “Light” is mixed with water to form a mortar which can be processed well. A compulsory mixer should be used. Per bag (25 kg) of KÖSTER Restoration Plaster 2 “Light”, approx. 4.1 to 4.4 l of water are needed.

The plaster is usually applied in one layer with a total layer thickness of up to 2.5 cm; the minimum layer thickness should be 2 cm. After throwing the plaster onto the wall, it is levelled with a darby float or a feather edge. After sufficient setting, the plaster is smoothed. KÖSTER Restoration Plaster 2 “Light” can be smoothed depending on humidity and temperature after approx. 2 - 4 hours.

Renovation against rising damp:

Immediately after closing the boreholes with KÖSTER KB-Fix 5, the salt-treatment and substrate solidification with KÖSTER Polysil® TG 500 can be carried out (min. consumption 120 g / m², in case of strongly absorbent substrates up to 250 g / m²). Directly afterwards, a plaster key made of KÖSTER Restoration Plaster 2 “Light” and KÖSTER SB Bonding Emulsion “Concentrate” (1 : 3 diluted with water) can be applied (consumption: approx. 2.5 - 3.0 kg / m²). After further 24 hours of waiting time, KÖSTER Restoration Plaster 2 “Light” can be applied in one or two layers in a min. total layer thickness of 2 cm.

Reduction of the formation of condensation water (subsequent work steps after application of the KÖSTER KD-System and after KÖSTER NB 1 Grey)

The waterproofing against pressurized, flowing water is done with the KÖSTER KD-System. Approx. 24 hours after finishing the

waterproofing, the plaster key is applied (consumption and application see above). After another 24 hours, the plaster key can be covered with KÖSTER Restoration Plaster 2 "Light". The surface of the restoration plaster can - after smoothing and curing of the plaster - be coated without further preparation with paints or wallpapers which are water vapour permeable.

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

Consumption

Approx. 9 kg / m² per cm of plaster layer thickness

Cleaning of tools

Clean tools immediately after use with water.

Packaging

25 kg bag

Storage

If stored in a dry place in originally sealed bags, the material can be stored for approx. 12 month.

Safety

Wear protective gloves and goggles when processing the material.

Technical guidelines cited

KÖSTER SB Bonding Emulsion „Concentrate“	Art.-Nr. 2.11
KÖSTER KD-System	Art.-Nr. 3.01
KÖSTER NB 1 Grey	Art.-Nr. 3.021
KÖSTER NB 2 White	Art.-Nr. 3.022
KÖSTER Polysil® TG 500	Art.-Nr. 4.011
KÖSTER KB Fix 5	Art.-Nr. 5.015
KÖSTER Repair Mortar	Art.-Nr. 5.030

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