



1. Product description

Dry bagged mortar made from lime, white cement, sand and additives results in a natural white, open pore hydrophobic restoration render mortar (R) to DIN EN 998-1 with a short setting time. Strength corresponds to mortar category CS II or P II to DIN V 18550. Complies with WTA data sheet 2-9-04/D and has been WTA certified.

2. Area of application

KEIM Porosan-HF-Sanierputz is a quick-setting restoration render for renovating damp and salt-laden rendered surfaces. It is suitable for very damp walls in old buildings, basement areas, cellars etc. and as a render undercoat and topcoat for exterior and interior use on surfaces not in contact with the ground. A single layer of render is also possible in the case of low or moderate salt loading (with preliminary investigation). Not sufficient on its own in the case of problems with pressing water or condensation (root cause must be eliminated). Due to its fine grain size, it is ideally suitable for felt-floated walls and comparable fine textures.

3. Product properties

- Grain size: 0–1 mm
- Porosity: > 40%
- WTA restoration render with elevated salt retention capacity
- Mineral, natural white
- Quick-setting and so sooner ready for felt-floating
- Automatic air entraining properties ensure high porosity resulting in high diffusion rate and good drying capacity
- Prevents salt efflorescence at the render surface (elevated salt retention capacity)
- Condensation-repellent property safeguards against damp and salt spots
- Very readily applicable by machine
- Frost-resistant

Material characteristics to DIN EN 998-1:

- Compressive strength: 1.5–5 N/mm², CS II
- Flammability: A 1
- Water vapour permeability μ : approx. 7
- Water absorption: > 0.3 kg/m² after 24 h
- Tensile bond strength: ≥ 0.08 N/mm²
(fracture pattern A, B, and C)
- Thermal conductivity:

$\lambda_{10, \text{dry}}$:	≤ 0.83 W/(mK) for P = 50%*
	≤ 0.93 W/(mK) for P = 90%*
	(* tabular values to EN 1745)
λ_{R} :	1.0 W/(mK)
	(* tabular value to DIN V 4108)

4. Application instructions

Substrate preparation

Remove existing salt laden render to at least 80 cm above the visible damage (very important) to reveal sound masonry. Immediately remove rubble containing salt. Remove crumbly joint mortar to a depth of at least 2 cm and replace crumbly stones. Thoroughly clean the masonry without using water (e.g. using a wire brush) and then remove dust (e.g. with compressed air). Prewet highly absorbent masonry. Apply a criss-cross roughcast key coat with KEIM Porosan-Trass-Zementputz to non-absorbent masonry or quarystone work in such a way that the masonry is still readily visible afterwards (approx. 50–70% cover). Indentations, holes and other uneven areas should be filled/levelled with KEIM Porosan-Ausgleichsputz-NP (observe setting times).

Consumption:

Material usage: approx. 1.0 kg/m²•mm
 Water usage: 5.5–6.5 l/sack or 220–260 l/t
 Yield: 1 sack (25 kg)
 produces approx. 25 l of wet mortar

Application

KEIM Porosan-HF-Sanierputz is prepared using conventional mixing pumps (for example P.F.T. G4, G5, Putzknecht S 48, m-tec M3) without postmixers and without air entraining screw jackets. Free fall mixers, compulsory mixers and other mixers which produce elevated air contents are not suitable. Exception: With continuous mixers such as m-tec D20 for example, an air-entraining tube is necessary. When handmixing, use a blunger and mix for no longer than 2 minutes. Stir mortar to a pliable, stable consistency and apply to render substrate: apply an initial render layer of 8–12 mm and then apply wet on wet to the desired thickness after a short waiting time. Do not remix material once stiffened. Do not add any third-party additives.

Multilayer rendering

Apply a single layer of render in a thickness of at least 20 and at most 25 mm. For greater thicknesses of render, in cases of high moisture content, extreme salt loading and other unfavourable conditions, apply in two or more layers, each layer being 10–25 mm thick. Roughen lower layers well and observe conventional setting times (1 day/mm). Before applying the subsequent layer, brush off any salts that have penetrated through to the surface in the meantime without using water. The total thickness should not exceed 40 mm. Greater total render thicknesses can be achieved with a base render layer of KEIM Porosan-Ausgleichsputz-NP. Uneven areas, relatively deep holes or areas with surface loss should also be levelled with KEIM Porosan-Ausgleichsputz-NP. Caution: Being quick-setting, finishing can generally proceed after only 2–3 hours. ►

Setting is delayed by high atmospheric humidity and low temperatures, while it is accelerated at higher temperatures.

Application conditions

Do not apply in high air temperatures, strong wind or rain, nor at air and wind temperatures below + 5°C.

Post-treatment

KEIM Porosan-Trass-HF-Sanierputz should be protected from sun or wind to prevent it from drying out too rapidly and, if necessary, should be kept moist.

Finishing/paint coating

Topcoats with further renders are possible (after an appropriate setting time), provided their s_d values are below 0.2 m.

A coloured finish may be applied once at least 10 days have elapsed. Surfaces must be pre-treated with a 1:3 dilution of KEIM Ätzflüssigkeit and then washed down with water.

KEIM Porosan-Trass-Sanierputz can only function properly if coated with highly water vapour permeable KEIM mineral paint systems, e.g. KEIM Purkristalat, KEIM Granital, KEIM Soldalit, KEIM Quarzil, KEIM Biosil, KEIM Ecosil-ME, KEIM Optil and KEIM Reversil.

Notes

In damp rooms (rel. atmospheric humidity of over 65%) the atmospheric humidity must be reduced low enough, by careful heating and ventilation or dehumidification, for the restoration render to be able to dry out within 10 days. The building contractor should be informed that such rooms also need to be adequately heated and ventilated during subsequent use.

5. Packaging

25 kg sacks, 42 sacks per pallet = 1.05 t

6. Storage

Shelf life is 6 months under dry conditions (wooden lattice).

7. Hazardous substances ordinance class

Xi Irritant
R 38: Irritating to the skin.

R 41: Risk of serious damage to the eyes.
S 2: Keep out of reach of children.
S 22: Do not inhale dust.
S 24/25: Avoid contact with skin and eyes.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37/39: Wear suitable gloves and eye/face protection.
S 46: If swallowed, seek medical advice immediately and show this container or label.

8. Transport hazard class

n/a

9. Disposal

EC Waste Code no. 17 01 01.

Do not allow the product to enter the sewer system. Solidify any residual material with water and dispose of in a building material landfill site. Empty sacks should be disposed of in accordance with official regulations.

10. Safety instructions

The mineral binder has an alkaline action. Protect surfaces which are not to be treated by covering. Any splashes on surrounding surfaces must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes.
Keep out of reach of children.

GISCODE: ZP 1

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