



### 1. Product description

Dry bagged mortar based on trass, lime, frost-resistant sand, cement and additives for establishing the necessary properties. Standard render mortar to DIN EN 998 1. Strength corresponds to mortar category CS II or P II to DIN V 18550.

Complies with WTA data sheet 2-9-04/D "Restoration render systems" as a leveling and porous base render within the Porosan restoration render system and has been WTA certified.

### 2. Field of application

KEIM Porosan Equalizer is used as a base render in the renovation of interior and exterior salt-damaged rendered surfaces as part of the Porosan restoration render system

- to level off uneven areas
- to achieve total render thicknesses of over 40 mm
- as a porous base render as per WTA data sheet.

For the field of application of the restoration render system overall, see KEIM Porosan Top Coat (Porosan-Trass-Sanierputz-NP).

### 3. Product properties

- Grain size: 0–4 mm
- Porosity: > 45%
- WTA-certified, mineral base render with high salt retention capacity
- Automatic air entraining properties ensure high porosity resulting in high diffusion rate and good drying capacity
- Applicable by machine

- Low stress due to coarse grain size
- High stability even with relatively thick layers

### Material characteristics to DIN EN 998-1:

- Compressive strength: approx. 4–5 N/mm<sup>2</sup>, CS II
- Flammability: A1 (non-flammable)
- Water vapor permeability  $\mu$ : approx. 8
- Water absorption: . > 1.0 kg/m<sup>2</sup> after 24 h, corresponding to WTA requirements
- Water absorption class: W2
- Tensile bond strength:  $\geq 0.08$  N/mm<sup>2</sup> (fracture pattern A, B or C)
- Thermal conductivity:
  - $_{10, dry}$  :  $\leq 0.83$  W/(mK) for P = 50%\*  
 $\leq 0.93$  W/(mK) for P = 90%\*  
(\*tabular values to EN 1745)
  - R: 1.0 W/(mK)  
(\*tabular values 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). Pre-wet highly absorbent masonry.

Apply a crisscross roughcast key coat with KEIM Porosan-Key Coat (Trass-Zementputz) to non-absorbent masonry or quarry stone work in such a way that the masonry is still readily visible afterwards (approx. 50–70% cover).

#### Consumption



Material usage: approx. 1.2 kg/m<sup>2</sup>(10.8 sq ft)·mm

Water usage: 6–7 l/sack or 170–200 l/t  
(1.6-1.8 gal per sack or 45-52.8 gal/ton)

Yield: 1 sack produces approx. 29 l  
(7.7 gal) of wet mortar

### Mixing

KEIM Porosan Equalizer is prepared using conventional mixing pumps (for example P.F.T. G4, G5, Putzknecht S 48, m-tec M3) without post mixers and without air entraining screw jackets. Free fall mixers, compulsory mixers and other mixers which produce elevated air contents are not suitable. When hand mixing, use a paddle and mix for no longer than 2 minutes.

Stir mortar to a pliable, stable consistency and apply to render substrate. Do not remix material once stiffened. Do not add any third-party additives.

### Multilayer rendering

Indentations and holes should be filled with KEIM Porosan Equalizer and other uneven areas should be leveled with a layer of KEIM Porosan Equalizer at least 10 mm (Approx.3/8 inch) thick. Apply in several layers if a thickness of greater than 20 mm (Approx. 3/4 inch) is required or in other unfavorable applications.

Roughen surface well and observe setting time (1 day per mm of thickness). Before applying further layers of render, brush off any salts that have penetrated through to the surface in the meantime without using water.

The render is built up further with KEIM Porosan Top Coat (Trass-Sanierputz-NP), KEIM UniversalPutz, or KEIM NHL Putz according to the appropriate Technical Data Sheets.

### Application conditions

Do not apply in high air temperatures, strong wind or rain, or at air and substrate temperatures below + 5 °C (41 °F).

### Post-treatment

KEIM Porosan Equalizer should be protected from sun and wind to prevent it from drying out too rapidly and, if necessary, should be kept moist.

### Note

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 base render to be able to dry out within 10 days

## 5. Packaging

35 kg (77 lb) sacks, 36 sacks per pallet

## 6. Storage

Shelf life is 12 months under dry conditions.

## 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 breathe dust.
S24/25:	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 is alkaline. 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

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.

