



## TECHNICAL DATA SHEET

# KEIM POROSAN® TRASS SANIERPUTZ (POROSAN RESTORATION RENDER)

## 1. PRODUCT DESCRIPTION

KEIM Porosan Trass Sanierputz is a restoration render based on hydraulic trass lime, frost resistant dolomite sand and additives.

## 2. FIELD OF APPLICATION

KEIM Porosan Trass Sanierputz is an open pored hydrophobic render for the repair of salt damaged rendered surfaces above ground level. It is suitable for both internal and external application, in particular for use on very damp walls in historic buildings, old buildings, basement areas and cellars.

## 3. PRODUCT PROPERTIES

Grain size: 0-1.2mm  
Porosity: > 40%

- Prevents salt efflorescence from forming on render surfaces
- High pore volume
- High vapour permeability therefore good drying characteristics
- Water repellent (reduces capillary conductance)
- Frost resistant
- Applicable by machine

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

Compressive strength:

approx. 1.5-5N/mm<sup>2</sup>, CS II

Flammability: A 1

Water vapour permeability  $\mu$ : approx. 7

Water absorption: > 0.3kg/m<sup>2</sup> after 24 h,

Tensile bond strength:  $\geq 0.08$  N/mm<sup>2</sup>

Thermal conductivity,  $\lambda_{10}$ , dry:

$\leq 0.83$ W/(mK) for P = 50%\*

$\leq 0.93$ W/(mK) for P = 90%\*

## 4. APPLICATION INSTRUCTIONS

### Substrate preparation

Existing salt laden render should be removed from the masonry to a height of approximately 800mm above the visible damage (this is very important). Rubble containing salt should be removed immediately. Brittle joint mortar should be removed to a depth of 20mm, worn out stones should be removed.

Masonry should be thoroughly cleaned (without water e.g. with wire brush) afterwards dust should be removed (with compressed air etc.)

In order to form a good bond between the non-absorbent masonry and the KEIM Porosan Trass Sanierputz, a rough coat of KEIM Porosan Trass Zementputz should be applied as a key coat. After the rough coat has been applied the masonry should still be clearly visible.

Depressions, holes and uneven areas should be filled or equalised with KEIM Porosan Trass Ausgleichputz (ensure sufficient time for setting).

### Application

35kg of KEIM Porosan Trass Sanierputz (1 bag) requires mixing with approximately 6.5 litres of water and yields approximately 26 litres of wet mortar. KEIM Porosan Trass Sanierputz should be mixed with clear water to a thick consistency. Small quantities should be mixed with a mortar whisk (minimum mixing time 2 minutes). For larger quantities mixing pumps can be used. Free fall mixers are not suitable. Very long mixing periods should be avoided.

If the total thickness is more than 30mm, the first layer should consist of KEIM Porosan Trass Ausgleichputz. After the appropriate setting time

has been observed, apply two layers of KEIM Porosan Trass Sanierputz, each of a minimum 10mm.

If KEIM Porosan Trass Sanierputz is used on its own, the total layer thickness should be between 20-40mm, the upper layer of render should be at least 10mm thick.

If KEIM Porosan Trass Ausgleichputz is used as a base layer of render, then the upper layer of render should consist of KEIM Porosan Trass Sanierputz with a minimum thickness of 15mm.

The waiting time following application of the first layer depends upon its thickness, 1 day per mm. The first layer of render should be scraped off, during the setting time it should be well roughened (with a stiff bristle brush etc.).

### Post application:

KEIM Porosan Trass Sanierputz should be protected from sun and wind in order to prevent its water content from evaporating too rapidly. If necessary moisten from time to time.

### Setting Time:

The setting time depends on the ambient temperature and the consistency and absorbency of the substrate, usually 1 day per mm thickness of restoration render layer. After two weeks the render can be coated with KEIM Mineral Paint systems.

### Application conditions

Ambient and substrate temperature above 5°C and below 30°C. Do not apply in direct sunlight or onto sun-heated surfaces, nor if it is raining or if there is an immediate likelihood of rain.

### Consumption

1 bag (35kg) = approximately 26 litres of wet render, yields 1.3m<sup>2</sup> of render surface with a thickness of 20mm, equivalent to approximately 27kg/m<sup>2</sup> of dry mortar.

The stated consumption values are for guidance and depend on the nature of the substrate and the application method. Exact consumption values can only be determined by trials on the substrate.

### Paint Coating:

KEIM Porosan Trass Sanierputz can only function properly if coated with highly water vapour permeable KEIM Mineral Paints systems.

### Cleaning of tools

Clean immediately after use with water

## 5. PACKAGING

35kg sacks

## 6. STORAGE

Shelf life is approx. 12 months if kept dry, cool, but frost-free in tightly closed containers. Protect from moisture.

## 7. 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.

## 8. SAFETY INSTRUCTIONS

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, ceramics, natural stone, etc.) Protect the eyes and skin from splashes. Keep out of reach of children.

Please, refer to the EC Material Safety Data Sheet

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.

