



1. Product description

Mineral light-weight mortar manufactured to DIN EN 998-1, based on lime, cement, lime sandstone and mineral light-weight aggregates, complies with mortar category CS II, P II to DIN V 15 550. KEIM Porosil-Leichtputz is water-repellent.

2. Field of application

KEIM Porosil-Leichtputz is used as topcoat and undercoat render for interior and exterior applications, especially on highly heat-insulating wall-building material and AAC.

3. Product properties

- Grain size: 0 - 1.3 mm
- Bulk density: 1.1 g/cm³
- Color shade: grey

Material characteristics to DIN EN 998-1

- Compressive strength: 1.5-5.0 N/mm², CS II
- Flammability: A1
- Water vapor permeability μ : approx. 12
- Water absorption: W 2
(water-repellent acc. to DIN V 18 550)
- Tensile bond strength: ≥ 0.08 N/mm²
(fracture pattern A, B, C)
- Thermal conductivity:
 $\lambda_{10, \text{dry}}$: ≤ 0.39 W/(mK) for P = 50%*
 ≤ 0.44 W/(mK) for P = 90%*
(* tabular values to EN 1745)

4. Application instructions

Substrate preparation

The substrate must be solid, sound and free from dust and dirt. Base coat renders have to be properly set. Strongly absorbent substrates have to

be prewetted. Smooth dense surfaces need a suitable bridging coat, e.g. KEIM Universalputz as a slurry coat applied by brush.

Application

Water requirement for KEIM Porosil-Leichtputz approx. 8 - 8.5 l (2.1 - 2.2 gal) for one sack of 25 kg = 25 l (6.6 gal) wet mortar

Base render

The minimum thickness as base render is 10 mm. In case of layer thicknesses over 20 mm a multilayer application is required: strictly follow a sufficient setting time of the previous layer (1 day per mm render thickness). The previous layer has to be always roughened thoroughly.

On aerated concrete stones (AAC) the base coat must be applied in 2 layers wet-in-wet (setting time of the first layer max. 1-2 hours, total thickness approx. 15 mm). This way avoids a too intensive dehydration by the substrate, as the first layer reduces the water absorption. With this procedure a sealing primer or prewetting is unnecessary.

Reinforcing render

Fabric embedding rendering method with KEIM Universalputz as intermediate and top render is required for masonry with light-weight bricks (AAC) with λ -values of 0.14 W/mK and less.

Top render

The layer thickness of the top render depends on the desired rendering method. Do not drop below a minimum thickness of 3 mm. The setting time of the base render has to be observed! (1 day per mm render thickness).

KEIM Porosil-Leichtputz is suitable for all conventional rendering machines. For manual application KEIM Porosil-Leichtputz can be mixed



with a paddle. When applying by machine, the render is to be treated with a trowel immediately after spraying.

Application conditions

Air and surface temperature: > 5°C (41°F). Do not apply under direct sun or on sun-heated substrates. In case of a thin layer application or excessively fast drying process (e.g. strong wind), the finished render surface has to be remoistened one or more times.

Consumption

Approx. 1 kg per m² or 0.093 kg per 1 sq.ft. / per 1 mm thickness.

Subsequent coating

KEIM Porosil-Leichtputz can be over coated with KEIM mineral coating system, e.g. KEIM Soldalit or KEIM Granital, after a proper setting time (at least 10 days).

A pretreatment with KEIM Lime Remover (Ätzflüssigkeit), diluted 1:3 with water, is recommended.

5. Packaging

25 kg sacks

6. Storage

12 months, stored 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 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 09 04

Any residues must be emptied out of containers before recycling.

10. Safety instructions

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

Low chromate content according to TRGS 613.

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.

