



TECHNICAL DATA SHEET

KEIM POROSIL®-LEICHTPUTZ

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 18 550. KEIM Porosil-Leichtputz is water-repellent.

2. FIELD OF APPLICATION

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

3. PRODUCT PROPERTIES

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

Material characteristics to DIN EN 998-1:

- Compressive strength:
after 28 days 1.5-5.0 N/mm², CS II
- Flammability: A1
- Water vapour 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:
 $\lambda_{10,dry} \leq 0.39$ W/(mK) for P = 50%*
 ≤ 0.43 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 surfaces need a suitable bridging coat, e.g. KEIM Universalputz.

Application:

Water requirement for KEIM Porosil-Leichtputz approx. 8 - 8.5 l for one sack of 25 kg = 25 l 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 the base coat has to be applied in 2 layers wet-on-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 or top render is required for masonry with light-weight bricks 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 blunger. When applying by machine, the render is to be treated with a trowel immediately after spraying.

Application conditions:

Air and surface temperature: $> 5^{\circ}\text{C}$. 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 once or more times.

Consumption:

Approx. 1 kg per m² per mm thickness.

Subsequent coating:

KEIM Porosil-Leichtputz can be overcoated 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 Ätzflüssigkeit, diluted 1:3 with water, is recommended.



5. PACKAGING

25 kg bags

6. STORAGE

12 months, stored under dry conditions.

7. DISPOSAL

EC Waste Code No. 17 01 01

Any residues must be emptied out of containers before recycling.

8. SAFETY INSTRUCTIONS

Giscode: ZP 1

Provide appropriate protection for surfaces which are not to be treated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

Please refer to EC 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.



KEIMFARBEN GMBH

Keimstraße 16 / 86420 Diedorf / Tel. +49 (0)821 4802-0 / Fax +49 (0)821 4802-210
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 (0)35456 676-0 / Fax +49 (0)35456 676-38
www.keim.com/info@keimfarben.de