



## TECHNICAL DATA SHEET

# KEIM POROSIL<sup>®</sup>-LEICHTPUTZ

## 1. PRODUCT DESCRIPTION

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Mineral light plaster mortar in accordance with DIN EN 998-1, based on lime, cement, limestone sand and mineral light aggregates, corresponds to mortar category CS II, P II in accordance with DIN V 18 550. KEIM Porosil-Leichtputz is water-repellent.

## 2. FIELD OF APPLICATION

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As exterior and interior plaster, as base and finishing plaster, especially on highly insulating wall building materials.

## 3. PRODUCT PROPERTIES

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- excellent application properties
- good machine processability
- easy to apply
- mineral
- low stress
- permeable
- fire behaviour: non-flammable (A1)

### MATERIAL CHARACTERISTICS:

- Bulk density: approx. 1,1 g/cm<sup>3</sup>
- Maximum grain size: 1.3 mm

### CLASSIFICATION:

- Classification according to: DIN EN 998-1
- Plaster type: LW
- Compressive strength category: CS II 1,5 -5,0 N/mm<sup>2</sup>
- Test standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength:  $\geq 0,08$  N/mm<sup>2</sup>
- Fracture pattern Adhesive tensile strength: A,B,C
- Test standard Adhesive tensile strength: DIN EN 1015-12
- Water absorption class: W2
- Test standard Water absorption: DIN EN 1015-18
- Water vapour diffusion resistance value ( $\mu$ -value):  $\leq 20$

### COLOUR SHADES:

grey

## 4. APPLICATION INSTRUCTIONS

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### SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues and must not be too absorbent. In the case of highly absorbent substrates or very warm ambient conditions, prewetting must be carried out. Separating substances, e.g. shuttering oil residues on concrete surfaces, must be removed by suitable means. Equalise strong unevenness

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with suitable material of the same type. For smooth concrete surfaces, apply KEIM Universalputz as a bonding bridge using the combed bed method. On highly absorbent substrates such as aerated concrete, the base coat should be applied in two coats, wet on wet. A waiting time of approx. 1 to 2 hours should be observed between the first and second layer. This procedure means that pre-wetting can be avoided.

### APPLICATION CONDITIONS:

Ambient and substrate temperature  $\geq 5$  °C during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

### PREPARATION OF MATERIAL / MIXING & CONVEYING:

Mix KEIM Porosil-Leichtputz with approx. 8.0 - 8.5 l (specification per bag) of clean water with a power stirrer to a stiff-plastic consistency without lumps and allow to mature briefly. Do not remix already stiffened material with water. Application can be performed by hand, via continuous mixer or rendering machine.

### APPLICATION:

Apply mixed KEIM Porosil-Leichtputz quickly with suitable tools in uniform layer thickness.

### LAYERING SYSTEM:

Base plaster: When used as a base coat, the minimum plaster thickness is 10 mm. For plaster thicknesses greater than 20 mm per layer and other unfavourable conditions, multi-layer application is recommended, whereby the previous layer must be roughened in each case. When working with several layers, observe the intermediate standing times and do not exceed the total thickness of 30 mm for all layers.

### REINFORCEMENT:

For lightweight brick masonry with  $\lambda$ -values of 0.14 W/mk and less, a fabric filler with KEIM Turado as intermediate or finishing render layer is required.

### TOP RENDER:

When using KEIM Porosil-Leichtputz as finishing plaster, the surface can be felted with a sponge board after sufficient consolidation. Free texturing or washing is also possible. A minimum thickness of 3 mm must be observed.

### AFTERTREATMENT:

KEIM Porosil-Leichtputz must be protected from drying out too quickly due to sun or wind, or kept moist if necessary.

### FINISHING:

All KEIM coating systems for exterior and interior use are suitable.

Observe the standing time before painting.

Required preparatory work on exterior surfaces: Etching with KEIM Etching Liquid, diluted 1:3 with water, then rinse with clean water.

### SETTING TIME:

at least 1 day per mm render thickness (depending on temperature and relative humidity). When used as top coat render, allow to set for at least 5 days before coating. (If the standard rule of 1 day per mm results in longer setting times due to the layer thickness, the longer setting time must then be observed before painting).

### CONSUMPTION:

approx. 1,0 kg/m<sup>2</sup> per mm

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

### CLEANING OF TOOLS:

Clean tools, machines and mixers immediately after use with water. In hardened state only a mechanical removal is possible.

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### 5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
25	kg	42	bag

### 6. STORAGE

max. storage time	Storage conditions
12 months	dry

### 7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

#### EC WASTE CODE:

Waste code: 17 01 01

### 8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

### 9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

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 the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.



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