



## TECHNICAL DATA SHEET

# KEIM UNIVERSAL-RENDER

## 1. PRODUCT DESCRIPTION

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KEIM Universal-Render is a renovation and facade thin-layer plaster based on lime-cement with organic additives and fibre reinforcement (standard plaster mortar according to DIN EN 998-1). KEIM Universal-Render corresponds to mortar category CS III, P II according to DIN V 18550. In combination with KEIM silicate paints, this results in a coordinated plaster/coating system.

## 2. FIELD OF APPLICATION

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KEIM Universal-Render is suitable for renovating or recoating load-bearing old plasters (also synthetic resin plasters) and old paints (also synthetic resin paints). KEIM Universal-Render is suitable for exterior and interior use for partial or full-surface recoating with fabric embedding (e.g. with KEIM glass fibre mesh mat). KEIM Universal-Render As a finishing plaster, it can be textured or felted.

Not suitable:

plasto-elastic coatings; saponifiable existing substrates

## 3. PRODUCT PROPERTIES

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- easy to apply
- universally applicable
- for interior and exterior use
- very robust surface
- very good adhesion
- mineral
- permeable
- highly water-repellent
- fire behaviour: non-flammable (A1)
- no biocides added
- no plasticisers added
- no solvents added

### MATERIAL CHARACTERISTICS:

- Bulk density: approx. 1,35 g/cm<sup>3</sup>
- Maximum grain size: 1.3 mm

### CLASSIFICATION:

- Plaster type: GP
- Compressive strength category: CS III 3,5 -7,5 N/mm<sup>2</sup>
- Standard compressive strength DIN EN 1015-11: DIN EN 1015-11
- Adhesive tensile strength:  $\geq 0,08$  N/mm<sup>2</sup>
- Fracture pattern Adhesive tensile strength: A,B,C
- Standard Adhesive tensile strength DIN EN 1015-12: DIN EN 1015-12
- Water absorption class: W2
- Standard Water absorption DIN EN 1015-18: DIN EN 1015-18

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- Water vapour diffusion resistance value ( $\mu$ -value):  $\leq 10$

### COLOUR SHADES:

natural white

## 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 with suitable material of the same type.

### 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 Universal-Render with approx. 5.8 - 6.2 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.

### CONSUMPTION:

approx. 1,1 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.

### APPLICATION:

Apply mixed KEIM Universal-Render quickly with suitable tools in uniform layer thickness.

### LAYERING SYSTEM:

Application in one or several layers, min. 4 mm and max. 10 mm layer thickness per layer. When working with several layers, observe the intermediate standing times and do not exceed the total thickness of 15 mm for all layers.

### REINFORCEMENT:

Apply KEIM Universal-Render evenly. Embed KEIM Glasfaser-Gittermatte (mesh), overlap 10 cm at the joints and overcoat wet-in-wet with KEIM Universal-Render. Necessary cuts into the mesh are to be covered with an additional fabric strip. The system-specific KEIM Glasfaser-Gittermatte (mesh) should be placed in the upper third and fully embedded. In the corner area of building openings, additionally embed a KEIM Diagonalarmierung. Total thickness of the reinforcement layer should be at least 6 mm.

### TOP RENDER:

When using KEIM Universal-Render as finishing plaster, the surface can be felted with a sponge board after sufficient consolidation. Free texturing or washing is also possible.

### AFTERTREATMENT:

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

### 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	36	bag

### 6. STORAGE

max. storage time	Storage conditions
12 months	dry

### 7. DISPOSAL

Waste code: 17 01 01

### 8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

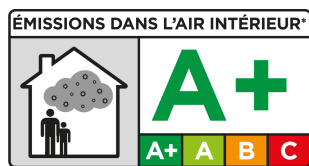
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### 9. GENERAL INFORMATION

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.

### 10. CERTIFICATES & QUALITY SEALS



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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