



## TECHNICAL DATA SHEET

# KEIM UNIVERSAL RENDER (KEIM UNIVERSALPUTZ)

## 1. PRODUCT DESCRIPTION

KEIM Universal Render is a renovation and thin layer exterior wall render, based on lime and silicates with fibre reinforcement, for use on all mineral substrates, both exterior and interior.

## 2. FIELD OF APPLICATION

Renovation and repair of sound existing renders, sound existing paint coats and for filling of cracks. Suitable for interior and exterior use.

KEIM Universal Render can be used as a base coat for KEIM Brillantputz and for subsequent decoration using KEIM Mineral Paints.

## 3. PRODUCT PROPERTIES

Binder based on pozzolan with calcite aggregates, light aggregates and fibre reinforcement, water repellent.

Grain size: 0 - 1.3mm  
Bulk density: 1.35g/cm<sup>3</sup>

### Material characteristics

Water absorption co-efficient:  
 $w < 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Diffusion resistance value:  
 $\mu = 8.4$

Comprehensive strength  
approx. 4.5N/mm<sup>2</sup>

Thermal conductivity,  $\lambda_{10}$ , dry:  
 $\leq 0.83 \text{ W/(mK)}$  for P = 50%  
 $\leq 0.93 \text{ W/(mK)}$  for P = 90%

## 4. APPLICATION INSTRUCTIONS

### Substrate preparation

Test substrate for load carrying capacity. Remove loose parts and old coats mechanically or with a water pressure jet.

### Application

Mix in the ratio of 1kg KEIM Universal Render to 0.24 litres of clean cold water (approximately 6 litres per 25kg bag) using a mechanical stirrer or plaster mixing machine/sprayer, e.g. Putzmeister or similar.

Apply to pre-wetted surfaces in layers from 4mm minimum to 10mm maximum. For subsequent applications do not scratch up between coats and leave for a minimum period of at least 12 hours between coats.

KEIM Glassfibre Reinforcing Mesh may be incorporated, if required, by pressing into newly applied KEIM Universal Render. When incorporating mesh, apply a first layer of KEIM Universal Render, flatten the fabric (with an overlap of 10cm) and apply the second layer of KEIM Universal Render.

Finish off using a float appropriate to the required surface finish (i.e. sponge faced float such as KEIM Hydro Sponge Float).

### 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.

### Setting Time

1 day per 1mm render layer thickness.

### Subsequent Finishing

KEIM Universal Render is suitable for decoration with all exterior and interior KEIM Mineral Paint systems after a minimum period of 15 days.

For finishing with KEIM Brillantputz, no preparatory work is necessary.

### Consumption

Approximately 1.1kg/m<sup>2</sup> per 1mm render layer thickness.

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.

### **Cleaning of tools**

Clean immediately after use with water.

## **5. PACKAGING**

25kg 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.

After contact with water and after hardening the product can be disposed of as building rubble.

## **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.

