



### 1. Product description

KEIM Universalputz is a renovation and thin layer exterior wall render, based on lime cement with organic additives and fiber reinforcement, (Standard render to DIN EN 998-1). KEIM Universalputz corresponds to mortar category CS III, P II acc. to DIN V 18550. Combined with KEIM silicate coatings, KEIM Universalputz is a coordinated render/coating system.

### 2. Field of application

Renovation and repair of:

- sound existing renders (including synthetic resin renders)
- sound existing paint coats (including synthetic resin paint coats)
- interior and exterior areas
- cracks
- problem areas
- with fabric embedding (e.g. with KEIM Glasfaser-Gittermatte or KEIM Innengewebe) over part or all of the surface.

Not suitable for plasto-elastic and saponifiable substrates.

When used as a finishing render, KEIM Universalputz may be textured or felt-floated

### 3. Product properties

Binder based on white lime cement with calcite aggregate together with light aggregate and fiber reinforcement, water-repellent.

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

#### Material characteristics to DIN EN 998-1:

- Compressive strength: > 3.5 - 7.5 N/mm<sup>2</sup>, CS III
- Water vapour permeability  $\mu$ : approx. 9
- Water absorption: W2
- Thermal conductivity  $\lambda_{10, \text{dry}}$ :
  - ≤ 0.83 W/(mK) for P = 50%\*
  - ≤ 0.93 W/(mK) for P = 90%\*(\* tabular values acc. to EN 1745)

### 4. Application instructions

#### Initial preparation

Test load-bearing capacity of substrate. Remove any loose areas of existing coatings mechanically or by water jetting.

#### Application

Strongly absorbent substrate must be prewetted. Water requirement: approx. 240 ml/kg (corresponding to 6 l/25 kg sack); mix with blunger or render mixing machine. Apply in one or more layers to a thickness of at least approx. 4 mm and at most 10 mm per layer. If using as a finish render, texture or felt-float. On a non-absorbent render substrate, the render must solidify completely before being felt-floated with an additional thin layer.

#### Reinforcement

Apply approx. 3-4 mm of KEIM Universalputz, press KEIM Glasfaser-Gittermatte in, using a trowel and avoid wrinkles when applying (fabric webs overlapping by 10 cm). Apply a further layer of approx. 2 mm of KEIM Universalputz. KEIM Glasfaser-Gittermatte must be on the upper half of the reinforcing layer near as possible to the surface and completely embedded. Total layer thickness min 6 mm.

Note: Do not overmix material, as overmixing entails the risk of a marked loss of strength. Material which has already set must not be remixed.

#### Application conditions

Ambient and substrate temperature must not fall below + 5°C during the application and drying phase. Do not apply in direct sunlight or onto sun-heated substrates. Protect surfaces from wind and rain during and after application.

#### Drying times

1 day/1 mm of render thickness if a further layer of render is to be applied. A setting time of 10 days is necessary before coating.

#### Finishing

- with finishing renders such as KEIM Indusil or KEIM Brillantputz, no preparatory work is necessary.
- with paint: all interior and exterior KEIM coating systems are suitable. Essential minimum layer thickness for KEIM Purkristalat 5 mm.



Preparatory work required on exterior surfaces:  
Remove lime with KEIM Ätzflüssigkeit, diluted 1:3  
with water, then rinse off with clean water.

### Consumption

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

### Cleaning of tools

Clean with water immediately after use.

## 5. Packaging

25 kg sack, silo on request.

## 6. Storage

Shelf life is 12 months under dry conditions.

## 7. Hazardous substances ordinance class

Xi	Irritant
R 37/38:	Irritation to respiratory system and skin.
R 41:	Risk of serious damage to eyes.
S 2:	Keep out of reach of children.
S 22:	Do not breathe 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 36/37/39:	Wear suitable protective clothing, 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 01 01

Any residues must be emptied out of sacks before recycling.

## 10. Safety instructions

In the presence of water, lime and cement exhibit an alkaline reaction. Provide appropriate protection for surfaces which are not to be treated, in particular glass, ceramics, natural stone, etc. Protect the eyes and skin from splashes. When using, do not eat or drink. Keep out of reach of children.

Product code: ZP1

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.

