



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-Fein corresponds to mortar category CS III (P II acc. to DIN 18550). Combined with KEIM silicate coatings, KEIM Universalputz-Fein 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
- 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. Very suitable for machine application with excellent adhering property during application. KEIM Universalputz-Fein may be textured or felt-floated.

3. Product properties

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

- Grain size: 0 - 0.6 mm
- Bulk density: 1.2 g/cm³

Material characteristics to DIN EN 998-1:

- Compressive strength: 3.5 - 7.5 N/mm², CS III
- Water vapour permeability μ : approx. 8
- 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

Substrate Preparation

Check load capacity of the substrate. Remove loose parts of renders or old coatings mechanically or by high-pressure water jetting. Use KEIM Universalputz with 1.3 mm grain size as first layer for rough textures of old renders or uneven substrates.

Application

Highly absorbent substrates must be prewetted. Water requirement: approx. 270-290 ml/kg (corresponding to 5.4 - 5.85 l/20 kg sack); mix with blunger or render mixing machine. Layer thickness applied should range from at least 4 mm to at most 8 mm.

Reinforcement

Apply approx. 3-4 mm of KEIM Universalputz-Fein, press KEIM Glasfaser-Gittermatte (glass fibre mesh) 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-Fein. KEIM Glasfaser-Gittermatte (glass fibre mesh) 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.

KEIM Universalputz Fine may be textured or felt-floated (when felt-floating, use firstly a coarse and then a fine sponge float). On a non-absorbent render substrate, the render must solidify completely before being felt-floated with an additional thin layer. 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 rendered surfaces from direct sunlight, wind and rain during and after application.

Post-treatment

Protect the fresh layer of render from drying out too quickly and, if needed, keep moist by wetting with water for a couple of days after texturing or finishing with a felt float. Interior spaces must be heated with care, since too rapid heating may disrupt the hydraulic setting reactions.



Finishing

All KEIM coating systems are suitable for external and internal use. Can be overcoated with paint after 10 days.

Essential minimum layer thickness for coating with 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. 1.2 kg/m² per mm render 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 painting trial areas on the structure to be coated.

Cleaning of tools

Clean with water immediately after use.

5. Packaging

20 kg sack, silo on request.

6. Storage

Shelf-life is 12 months when stored in original packaging in dry, cool and frostfree conditions and protected from moisture.

7. Hazardous substances ordinance class

Xi Irritant

R 37/38: Irritating 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.

Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. 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.