



## TECHNICAL DATA SHEET

# KEIM RESTAURO®-GRUND

## 1. PRODUCT DESCRIPTION

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Mineral restoration dry mortar with hydraulic binders.

## 2. FIELD OF APPLICATION

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KEIM Restauro-Grund is a natural stone substitute for relining in the event of deep damaged areas (> 20 mm) as well as a core material for impressions in open moulds.

## 3. PRODUCT PROPERTIES

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- very good stability
- mineral
- very high strength
- fire behaviour: non-flammable (A1)

### MATERIAL CHARACTERISTICS:

- Setting time: approx. 4 h
- Processing time: approx. 45 min
- Thermal expansion: approx. 0,000006 1/K
- Hygric expansion: approx. 1 mm/m

### CLASSIFICATION:

- Classification according to: DIN EN 998-1
- Compressive strength (28d): approx. 29 N/mm<sup>2</sup>
- Flexural strength (28d): approx. 8 N/mm<sup>2</sup>
- Compressive strength category: CS IV ≥ 6 N/mm<sup>2</sup>
- Test standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength: ≥ 0,45 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: W0
- Test standard Water absorption: DIN EN 1015-18
- Thermal conductivity λ<sub>10,dry,mat</sub> for P=50%: 1.11 W/(mK)
- Thermal conductivity λ<sub>10,dry,mat</sub> for P=90%: 1.21 W/(mK)
- Thermal conductivity Table value according to: DIN EN 1745
- Water vapour diffusion resistance number (μ-value): ≤ 225

### COLOUR SHADES:

brown

**4. APPLICATION INSTRUCTIONS**

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**SUBSTRATE PREPARATION:**

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues.

**Pre-wetting:**

The restoration mortar may only be applied to a damp substrate. Sufficient pre-wetting is therefore absolutely necessary. Remove excess water by patting with a sponge.

**Pointing:**

Damaged natural stone, which is to be completed with KEIM Restauro, must be removed down to the sound core with a tooth cutter or similar tools. Particularly on flat natural stone surfaces, the pointing should be carried out at right angles or in a dovetail shape so that the restoration mortar can be worked in underneath.

**Reinforcing:**

Supporting reinforcements may be necessary for projecting natural stone elements.

**Cleaning:**

Any existing stone dust must be carefully removed from the areas to be supplemented using compressed air or clear water and a brush.

**PREPARATION OF MATERIAL / MIXING & CONVEYING:**

Mix KEIM Restauro-Grund with approx. 3,8 - 4.2 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:**

Application: The matured base mortar is cast into the pointed and pre-wetted damaged area. The filling should only reach 2 cm below the original stone surface.

**LAYERING SYSTEM:**

Do not exceed the maximum layer thickness in one work step 50 mm.

**AFTERTREATMENT:**

After the base mortar has set, roughen the surface.

**SETTING TIME:**

at least 1 day of waiting time.

**CONSUMPTION:**

approx. 2 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 immediately with water.

**5. PACKAGING:**

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Container content	Unit of measure	Quantity on pallet	Type of container
30	kg	30	bag

**6. STORAGE**

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max. storage time	Storage conditions
12 months	dry keep container tightly sealed.

**7. DISPOSAL:**

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

**EC WASTE CODE:**

Waste code: 17 01 01

**8. SAFETY INSTRUCTIONS**

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Please, refer to the Material Safety Data Sheet.

**CISCODE:**

GIS code: ZP 1

**9. GENERAL INFORMATION**

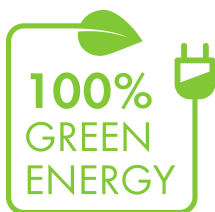
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Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

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

**10. CERTIFICATES & QUALITY SEALS**

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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.