



## TECHNICAL DATA SHEET

# KEIM RESTAURO®-GRUND

## 1. PRODUCT DESCRIPTION

Mineral dry bagged restoration mortar with hydraulic binders.

## 2. FIELD OF APPLICATION

KEIM Restauro-Grund is a natural stone replacement material for lining deep areas of damage (> 2 cm) and a core material for open form casting.

## 3. PRODUCT PROPERTIES

### Material characteristics acc. to WTA leaflet 3-11-97/D:

- Bulk density: approx. 1.34 g/cm<sup>3</sup>
- Water consumption: approx. 0.14 l/kg
- Working time: at most 45 min
- Setting time: approx. 4 h
- Compressive strength: approx. 29 N/mm<sup>2</sup>
- Bending tensile strength: approx. 8 N/mm<sup>2</sup>
- Thermal dilatation: approx.  $6 \times 10^{-6}$  (1/K)
- Hygric dilatation: approx. 1,0 mm/m

### Colour shade:

Brown

## 4. APPLICATION INSTRUCTIONS

### Application temperature:

Ambient and substrate temperature must not fall below +5°C.

### Substrate preparation:

Hacking out:

Defective natural stone which is to be repaired with KEIM Restauro® should be hacked back to a sound base using an indented chisel or similar tools. Especially on flat areas of natural stone, a box-shaped recess should be formed when hacking back to provide a good key for the restoration mortar.

Reinforcement:

Supporting reinforcement may be required for protruding natural stone features and Restauro reinforcement materials should be used for this purpose.

### Cleaning:

Any stone dust must be carefully removed from the areas to be repaired with compressed air or with clean water and a brush.

### Prewetting:

The restoration mortar must only be applied onto a moist substrate. Adequate prewetting is thus absolutely essential. Remove any excess water with a sponge.

### Application:

Mixing:

KEIM Restauro-Grund is mixed with water only, approx. 4.0 l per 30 kg. Use a mixer or compulsory mixer for larger quantities. After a maturing period of 5 minutes, the mortar should be of a consistency suitable for application by throwing.

Application:

The matured mortar is thrown into the hacked back and prewetted damaged area, only filling the cavity up to approx. 2 cm beneath the original stone surface. Total layer thickness must not exceed 5 cm per application. Protect freshly applied mortar from sun, wind and rain.

### Consumption:

Approx. 20 kg/m<sup>2</sup> at a layer thickness of 1 cm.

### Finishing:

Once the base mortar has set, roughen the surface and allow at least 1 day to elapse before further finishing operations.

### Cleaning of tools:

Clean with water immediately after use.

## 5. PACKAGING

30 kg sacks

## 6. STORAGE

12 months in a closed sack under dry conditions.



### 7. DISPOSAL

EC Waste Code No. 17 01 01

Any residues must be emptied out of sacks before recycling. Solidify any residual material with water and, after consulting the relevant authorities, dispose of in a building material landfill site.

### 8. SAFETY INSTRUCTIONS

Giscode: ZP 1

Provide appropriate protection for surfaces which are not to be treated. 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, drink or smoke. Keep out of reach of children.

Please refer to EC 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.



**KEIMFARBEN GMBH**

Keimstraße 16 / 86420 Diedorf / Tel. +49 (0)821 4802-0 / Fax +49 (0)821 4802-210  
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 (0)35456 676-0 / Fax +49 (0)35456 676-38  
[www.keim.com](http://www.keim.com) / [info@keimfarben.de](mailto:info@keimfarben.de)