

# Technical Data Sheet

## KEIM Restauro®-Giess (Casting mortar)



### 1. Product description

Mineral dry bagged restoration mortar with hydraulic binders.

### 2. Field of application

KEIM Restauro-Giess is a natural stone replacement material for the reinstatement of stone architectural details and figures by open or closed form casting.

### 3. Product properties

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

- Bulk density: approx. 1.55 g/cm<sup>3</sup>
- Water consumption: approx. 0.17 l/kg  
(approx. 5.7 fl oz per kg)
- Working time: at most 45 minutes
- Setting time: > 8 hours
- Compressive strength: approx. 42 N/mm<sup>2</sup>
- Bending tensile strength: approx. 9 N/mm<sup>2</sup>
- Modulus of elasticity: approx. 26.0 KN/mm<sup>2</sup>
- Thermal dilatation: approx.  $5 \times 10^{-6}$  (1/K)
- Hygric dilatation:  $0.9 \times 10^{-3}$  (mm/m)

#### Color shade

Standard shades in accordance with natural stone color swatches or special shades to match stone sample. All shades can be mixed with one another. Color shades are adjusted for cast surfaces which have not been further finished. Slight variations in shade due to differing setting conditions cannot be ruled out.

### 4. Application instructions

#### Application temperature

Ambient and substrate temperature must not fall below +5 °C (41 °F).

#### Mixing:

KEIM Restauro-Giess is mixed with water only, approx. 5 l (1.3 gal) per 30 kg. Use a hand mixer or professional mixer for larger quantities. After a maturing period of 5 minutes, the mortar should flow readily.

#### Casting:

Silicone rubber moulds are used for reproducing shapes. At least 48 hours must elapse before removing the casting from the mold.

#### Finishing:

At least 8 days must elapse before finishing using masonry techniques is possible. It should be noted that such work generally results in a lighter color shade.

#### Consumption

Approx. 2.2 kg per liter (per 0.26 gal).  
8.33 kg / gal or 0.04 kg / cu.in.

#### Cleaning of tools

Clean with water immediately after use.

### 5. Packaging

30 kg sacks

### 6. Storage

12 months in original unopened sack under dry conditions.



**7. Hazardous substances ordinance class**

- Xi Irritant,
- R 38: Irritating to the skin.  
 R 41: Risk of serious damage to the eyes.  
 S 2: Keep out of reach of children.  
 S 22: Do not breathe dust.  
 S24/25: 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 37/39: Wear suitable 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.  
 Solidify any residual material with water and, after consulting the relevant authorities, dispose of in a building material landfill site.

**10. Safety instructions**

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 water. Protect the eyes and skin from splashes. When using, do not eat, drink or smoke. Keep out of reach of children.

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