

# Keim Restauro<sup>®</sup> Top

## Finish Mortar

### Natural Stone Replacement

#### Product description

Mineral dry bagged restoration mortar with hydraulic binders.

#### Field of application

KEIM Restauro-Top is a natural stone replacement material for surface zones for reproducing the colour and texture of the original stone on the object, but may also be cast in open forms

#### Product properties

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

Bulk density:	approx. 1.40 g/cm <sup>3</sup>
Water consumption:	approx. 0.13 - 0.16 l/kg
Working time:	at most 45 min
Setting time:	> 5 h
Compressive strength:	approx. 10 N/mm <sup>2</sup>
Bending tensile strength:	approx. 4.1 N/mm <sup>2</sup>
Modulus of elasticity:	approx. 9.0 KN/mm <sup>2</sup>
Thermal dilatation:	approx. 7 X 10 <sup>-6</sup> (l/K)
Hygric dilatation:	1.6 mm/m

#### Colour shade

Shades from KEIM's natural stone colour swatches. Special shades to match stone sample on request. Only certain shades from KEIM's Palette Exclusiv range are available (see table on reverse). All shades can be mixed with one another. Colour shades are adjusted for cast surfaces which are further finished. Slight variations in shade due to differing temperatures and levels of atmospheric humidity cannot be ruled out.

#### Packaging

30 kg sacks

#### Application instructions

##### Application temperature

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

##### 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 2 cm in depth should be formed when hacking back to provide a good key for the restoration mortar. If, for sculptural reasons, hacking back in this manner is not feasible, care must be taken at least to ensure that the edges of the damaged area do not feather out.

##### 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-Gieß is mixed with water only, approx. 4 L per 30 kg. Use a mixer or compulsory mixer for larger quantities. After a maturing period of 5 minutes, the mortar should have the consistency of moist soil.

##### Application

The matured mortar is applied (pressed) onto the roughened und prewetted damaged area, for example using a trowel, ensuring that the layer thickness does not exceed 3cm. The final layer should stand at least 2mm proud of the original stone surface to allow for any finishing which is required.

##### Finishing

While the product is still setting, after approx. 2 - 4 h, KEIM Restauro-Top - may be finished with a palette knife, scraper, saw blade, indented chisel or similar tools to reproduce the original surface. Milling with a rough stone disk is also possible. At least 8 days must elapse before finishing using masonry techniques is possible. Protect freshly applied mortar from sun, wind and rain.

##### Consumption

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

##### Cleaning of tools

Clean with water immediately after use.

##### Note

Final colour shading and matching can be performed with KEIM Restauro-Lasur. At least 10 days must elapse before applying any coatings.

##### Storage

12 months in a closed sack under dry conditions.

##### Hazardous substances

Xi	Irritant
R38:	Irritating to the skin.
R41:	Risk of serious damage to eyes.
S2:	Keep out of reach of children.
S22:	Do not breathe dust.
S24/25:	Avoid contact with skin und eyes.
S26:	In case of contact with eyes, rinse immediately with plenty of water und seek medical advice.



- S37/39: Wear suitable gloves und eye/face protection.
- S46: If swallowed, seek medical advice immediately und show this container or lable.

**Transport hazard class**

Not applicable

**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.

**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 plenty of water.

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

Low on chromate according to TRGS 613

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9490	9493	9494	9497	9505	9510	9514	9516	9523	9525	9526	9529
9531	9533	9536	9541	9543	9546	9550	9552	9554	9555	9556	9564
9567	9569	9572	9574	9576	9582	9585	9590	9592	9595		

Colours with a higher tolerance

These colours cannot be supplied