



TECHNICAL DATA SHEET

KEIM RESTAURO®-TOP

1. PRODUCT DESCRIPTION

Mineral dry bagged restoration mortar with hydraulic binders.

2. FIELD OF APPLICATION

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

3. PRODUCT PROPERTIES

Material characteristics

acc. to WTA technical bulletin 3-11-97/D:

- Bulk density: approx. 1.40 g/cm³
- Water requirement: approx. 0.13 - 0.16 l/kg
- Working time: at most 45 minutes
- Setting time: approx. 5 hours
- Compressive strength: approx. 10 N/mm²
- Bending tensile strength: approx. 4.1 N/mm²
- Modulus of elasticity: approx. 9.0 KN/mm²
- Thermal dilatation: 7×10^{-6} (1/K)
- Hygric dilatation: 1.6 mm/m

Colour shade:

Shades from KEIM's natural stone colour swatches. Special shades on request: 300 kg minimum order quantity! All shades can be mixed with each other. The colours are coordinated for refinished surfaces. Slight variations in shade due to differing temperatures and levels of atmospheric humidity cannot be ruled out.

Test areas must be applied beforehand. For increased demands on colour accuracy and the necessity to match the existing surface we recommend a subsequent finish with KEIM Restauro-Lasur (colour wash).

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 reces 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-Top 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 and prewetted damaged area, for example using a trowel, ensuring that the layer thickness does not exceed 3 cm. The final layer should stand at least 2 mm proud of the original stone surface to allow for the required finishing.

Finishing:

While the product is still setting, after approx. 2 – 4 hours, KEIM Restauro-Top must be finished with a filler knife, scraper, saw blade, indented chisel or similar tools to reproduce the original surface. Rubbing with a rough stone disk is also possible. The surface must not be smoothened! 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 per m² 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 Restaurolasur. At least 10 days must elapse before applying any coatings.

5. PACKAGING

30 kg sacks

6. STORAGE

12 months in the closed bag 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 official local and national 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 coated (e.g. glass, natural stone, ceramics 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. Do not drink, eat or smoke during work. 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.



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