



TECHNICAL DATA SHEET

KEIM RESTAURO[®]-TOP

1. PRODUCT DESCRIPTION

Mineral restoration dry mortar with hydraulic binders.

2. FIELD OF APPLICATION

KEIM Restauro-Top is a natural stone substitute for areas close to the surface to recreate the colour and structure of the original stone on the object, but also when taking impressions in open moulds.

3. PRODUCT PROPERTIES

- easy to use
- very robust surface
- mineral
- permeable
- fire behaviour: non-flammable (A1)
- titanium dioxide-free

MATERIAL CHARACTERISTICS:

- Setting time: approx. 5 h
- Processing time: max. 45 min
- Thermal expansion: approx. 0,000007 1/K
- Hygric expansion: approx. 1,6 mm/m

CLASSIFICATION:

- Classification according to: DIN EN 998-1
- Compressive strength (28d): approx. 10 N/mm²
- Flexural strength (28d): approx. 4 N/mm²
- Compressive strength category: CS IV ≥ 6 N/mm²
- Standard compressive strength DIN EN 1015-11: DIN EN 1015-11
- Adhesive tensile strength: $\geq 0,08$ N/mm²
- Fracture pattern Adhesive tensile strength: A,B,C
- Standard Adhesive tensile strength DIN EN 1015-12: DIN EN 1015-12
- Water absorption class: W0
- Standard Water absorption DIN EN 1015-18: DIN EN 1015-18
- Thermal conductivity λ_{10} , dry, mat for P=50%: 0.82 W/(mK)
- Thermal conductivity λ_{10} , dry, mat for P=90%: 0.89 W/(mK)
- Thermal conductivity Table value according to: DIN EN 1745

- Water vapour diffusion resistance value (μ -value): ≤ 25

COLOUR SHADES:

Standard colour shades according to the following colour swatches:

KEIM Natural Stone, Special colour shades on request: minimum order quantity is 300 kg.. All colour shades can be mixed with each other. The colour shades are matched to refinished surfaces. Slight colour deviations cannot be ruled out due to changing temperature and humidity. Prepare test areas in advance. In case of increased demands on the colour accuracy and if it is necessary to match the existing surface, a subsequent glaze with KEIM Restauro-Lasur is recommended.

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

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

Pointing:

Damaged natural stone, which is to be supplemented with KEIM Restauro-Top, is to 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 2 cm deep at right angles or in a dovetail shape so that the restoration mortar can be worked in underneath. If pointing as described is not possible due to sculptural ornamentation, care should at least be taken that the affected damaged areas do not leak to zero.

Cleaning:

Carefully remove existing stone dust from the areas to be supplemented with compressed air or with clear water and a brush.

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.

PREPARATION OF MATERIAL / MIXING & CONVEYING:

Mix KEIM Restauro-Top 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.

CONSUMPTION:

approx. 2 kg/m² per mm

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

APPLICATION:

Application: The matured mortar is applied (pressed on) to the roughened and pre-wetted damaged area, e.g. with a trowel. The layer thickness should be no more than 30 mm. The final layer should be at least 2 mm higher than the original stone surface, so that any necessary reworking is possible.

Reworking: During setting, after 2-4 hours, the surface must KEIM Restauro-Top be scraped with a spatula, scraper, saw blade, toothed iron or similar tools. The surface of the original stone has to be levelled with a scraper, scraper blade, saw blade or similar tools. It is also possible to rub the surface with a rough stone disc. The surface must not be smoothed!

FINISHING:

A stonemasonry finish is possible after 8 days at the earliest.

Note: Nuanced colour adjustments and designs can be carried out with KEIM Restauro-Lasur.

SETTING TIME:

at least 1 day per mm render thickness (depending on temperature and relative humidity). The waiting time before painting must be at least 10 days.

CLEANING OF TOOLS:

Clean immediately with water.

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5. PACKAGING

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

6. STORAGE

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

7. DISPOSAL

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

Waste code: 17 01 01

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

9. GENERAL INFORMATION

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



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.



KEIMFARBEN GMBH

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