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

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

MATERIAL CHARACTERISTICS:

– Maximum grain size	0.7 mm
– 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
– Adhesive tensile strength	≥ 0,08 N/mm²
– Fracture pattern Adhesive tensile strength	A,B,C
– Standard Adhesive tensile strength	DIN EN 1015-12
– Water absorption class	W0
– Standard Water absorption	DIN EN 1015-18
– Thermal conductivity λ10,dry,mat for P=50%	0.82 W/(mK)
– Thermal conductivity λ10,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

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
The substrate must be solid, dry, clean, sound and free from residues that may impair adhesion.
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 L - 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
The information on material consumption is a guide for smooth substrates. Exact consumption figures must be determined by carrying out test areas.

PROCESSING:
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!

BONDING:

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.

SERVICE LIFE:
At least 1 day per mm of plaster 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.

5. PACKAGING

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

6. STORAGE

Maximum 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

Refer to the safety data sheet.

GIS code: ZP 1

9. GENERAL INFORMATION

Cover surfaces not to be treated, particularly glass, ceramics and natural stone. Splashes on surrounding surfaces or traffic areas must be immediately diluted with plenty of water and removed.
Mixing with products from other systems or other external additives is not permitted.

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.

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