



### 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 for reproducing the 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 leaflet 3-11-97/D

- Bulk density: approx. 1.40 g/cm<sup>3</sup>
- Water consumption: 0.13 – 0.16 l/kg
- Working time: at most 45 min
- Setting time: approx. 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>

#### 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.

### 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 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-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 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.

### 5. Packaging

30 kg sacks



## 6. Storage

12 months in a closed sack under dry conditions.

## 7. Hazardous substances ordinance class

Xi Irritant

- R 37/38: Irritating to respiratory system and skin.  
 R 41: Risk of serious damage to eyes.  
 S 2: Keep out of reach of children.  
 S 22: Do not breathe dust.  
 S 24/25: 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 36/37/39: Wear suitable protective clothing, 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 plenty of water.

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

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.

## Colour shades of KEIM Palette Exclusiv

9033	9036	9037	9038	9049	9051	9053	9055	9057	9058	9064	9066
9069	9071	9073	9075	9076	9077	9078	9084	9087	9089	9090	9091
9092	9095	9096	9097	9102	9103	9105	9108	9110	9112	9115	9117
9122	9123	9125	9129	9132	9135	9136	9137	9144	9146	9149	9153
9154	9156	9157	9162	9164	9166	9169	9171	9174	9176	9177	9182
9183	9184	9186	9187	9190	9192	9195	9197	9200	9201	9203	9206
9210	9213	9215	9217	9225	9229	9233	9243	9245	9248	9249	9251
9253	9255	9263	9265	9268	9271	9274	9276	9283	9285	9288	9292
9294	9295	9296	9298	9304	9307	9310	9312	9314	9317	9323	9325
9328	9329	9330	9332	9335	9337	9339	9345	9348	9351	9354	9357
9367	9369	9373	9375	9382	9383	9385	9389	9392	9395	9396	9398
9402	9406	9410	9412	9430	9432	9435	9436	9437	9448	9451	9454
9456	9457	9463	9466	9468	9471	9473	9475	9477	9482	9486	9488
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

