TECHNICAL DATA SHEET

KEIM RESTAURO®-GRUND

1. PRODUCT DESCRIPTION

Mineral restoration dry mortar with hydraulic binders.

2. FIELD OF APPLICATION

KEIM Restauro-Grund is a natural stone substitute for relining in the event of deep damaged areas (> 20 mm) as well as a core material for impressions in open moulds.

3. PRODUCT PROPERTIES

- mineral
- very good stability
- fire behaviour: non-flammable (A1)
- very high strength

MATERIAL CHARACTERISTICS:

– Maximum grain size	3.2 mm
– Setting time	approx. 4 h
– Processing time	approx. 45 min
– Thermal expansion	approx. 0,000006 1/K
– Hygric expansion	approx. 1 mm/m

CLASSIFICATION:

– Classification according to	DIN EN 998-1
– Compressive strength (28d)	approx. 29 N/mm²
– Flexural strength (28d)	approx. 8 N/mm²
– Compressive strength category	CS IV (≥ 6 N/mm²)
– Standard compressive strength	DIN EN 1015-11
– Adhesive tensile strength	≥ 0,45 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%	1.11 W/(mK)
– Thermal conductivity λ10,dry,mat for P=90%	1.21 W/(mK)
– Thermal conductivity Table value according to	DIN EN 1745
– Water vapour diffusion resistance value (μ-value)	≤ 225

COLOUR SHADES:
brown

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
The substrate must be solid, dry, clean, sound and free from residues that may impair adhesion.

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.

Pointing:
Damaged natural stone, which is to be completed with KEIM Restauro, must 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 at right angles or in a dovetail shape so that the restoration mortar can be worked in underneath.

Reinforcing:
Supporting reinforcements may be necessary for projecting natural stone elements.

Cleaning:
Any existing stone dust must be carefully removed from the areas to be supplemented using compressed air or clear water and a brush.

PREPARATION OF MATERIAL / MIXING & CONVEYING:
Mix KEIM Restauro-Grund 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 base mortar is cast into the pointed and pre-wetted damaged area. The filling should only reach 2 cm below the original stone surface.

LAYERING SYSTEM:
Do not exceed the maximum layer thickness in one work step 50 mm.

BONDING:

POST-TREATMENT:
After the base mortar has set, roughen the surface.

SERVICE LIFE:
Allow at least 1 day's drying time.

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.

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