



TECHNICAL DATA SHEET

KEIM GRANITAL®

1. PRODUCT DESCRIPTION

KEIM Granital is a water-repellent, ready-to-use silicate-based facade paint according to VOB/C DIN 18363 Para. 2.4.1 (dispersion silicate paint) with absolutely lightfast, inorganic pigments and mineral fillers. KEIM Granital is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

2. FIELD OF APPLICATION

KEIM Granital can be used on all mineral substrates. KEIM Granital is suitable for renovating old building structures as well as for new buildings thanks to its excellent product properties. A wide variety of applications are possible in combination with the precisely coordinated product components of the KEIM Granital system.

Not suitable for:

substrates with salt efflorescences; saponifiable existing substrates; horizontal and inclined surfaces exposed to weathering; plasto-elastic coatings

3. PRODUCT PROPERTIES

- economical in consumption
- C2C Certified Material Health Certificate™ Gold
- Cradle to Cradle Certified®-Certificate Silver
- mineral matt
- environmentally friendly
- non-film forming
- highly water-repellent
- highly permeable
- highly weather-resistant
- resistant against industrial emissions
- anti-fungal and anti-algae thanks to ideal moisture balance
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- no solvents added

MATERIAL CHARACTERISTICS:

- | | |
|---|-------------------------------------|
| - Density: | approx. 1.3 - 1.6 g/cm ³ |
| - Organic content: | < 5 % |
| - pH value: | approx. 11 |
| - Colour fastness (Fb-code pursuant to BFS Leaflet No. 26): | A1 |

CLASSIFICATION:

- | | |
|--|---|
| - Classification according to: | DIN EN 1062-1 |
| - Classification according to VOB: | Silicate emulsion paint according to DIN 18363 sec. 2.4.1 |
| - Water vapour diffusion current density (V-value): | > 2000 g/(m ² · d) |
| - Diffusion-equivalent air layer thickness (sd-value): | ≤ 0,01 m |
| - Diffusion-equivalent air layer thickness class: | V1 |

- Standard Diffusion equivalent air layer thickness DIN EN ISO 7783: DIN EN ISO 7783
- Water permeability: $\leq 0,1 \text{ kg}/(\text{m}^2\sqrt{\text{h}})$
- Water permeability rate class: W3
- Standard Water permeability rate DIN EN 1062-3: DIN EN 1062-3
- Gloss level at 85°: matt
- Standard Gloss level ISO 2813: ISO 2813

COLOUR SHADES:

White and colour shades only with purely mineral, light-resistant pigments.
On-site tinting exclusively with KEIM colour concentrates.
monochrome shades 9001 to 9010 available.

COMPOSITION

Full declaration in compliance with the "natureplus®" award guideline:

Silicate and calcitic fillers, potassium silicate, water, titanium dioxide, polyacrylate, hydrophobing agents, thickeners, stabilisers, wetting agents, defoamers. Origin of the mineral fillers: Germany and/or Austria.

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The substrate must be dry, sound, free from chalking, clean and dust-free. Loose parts of existing coatings must be removed mechanically or by high-pressure water jetting. Defective areas must be filled and texture-matched using a suitable repair material. Any sintered layers on new renders must be removed with KEIM Fluat-10 according to instructions. New render areas (repairs) are generally to be pretreated with KEIM Fluat-10 according to the specifications in the Technical Data Sheet. Strongly absorbing surfaces must be primed with KEIM Spezial-Fixativ. Please, refer to the Technical Data Sheet of the primer regarding application and dilution. Repaired substrates and substrates with structural differences or hairline cracks require a base coat with the higher filled KEIM Granital-Grob instead of KEIM Granital. In case of larger cracks or strong structural differences, a primer coat with the higher filled KEIM Contact-Plus might be necessary instead of KEIM Granital-Grob.

Sound, organic, existing coatings must be pre-coated with KEIM Contact-Plus as bridging coat.

Old coatings that are plasto-elastic or susceptible to saponification are not suitable for coating. Old, film-forming coatings that are not sound or hinder vapour diffusion must be removed with the paint stripper KEIM Dispersionentferner or by mechanical methods. A pretreatment with KEIM Silan-Primer is recommended for surfaces exposed to high moisture or weathering.

APPLICATION CONDITIONS:

Ambient and substrate temperature $\geq 5 \text{ °C}$ during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

PREPARATION OF MATERIAL:

Stir up KEIM Granital thoroughly before application.

CONSUMPTION:

approx. $0,35 \text{ kg}/\text{m}^2$ for two coatings.

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

APPLICATION:

KEIM Granital can be painted, rolled or sprayed (nozzle: ≥ 435 , for further information see TM on airless technology). On difficult, poorly and/or differently absorbent substrates, Special Fixative (Spezial-Fixativ) KEIM is recommended as a thinner.

Primer coat: For the primer coat, application with a roller or brush is recommended. Apply KEIM Granital in the normal case undiluted or depending on the absorbency of the substrate, diluted up to max. 20 % with KEIM Spezial-Fixativ.

Final coat: Apply KEIM Granital undiluted.

Note: Three coats are recommended in the event of very heavy use.

TECHNICAL DATA SHEET – KEIM GRANITAL®

DRYING TIME:

Can be overcoated after 12 hours at the earliest (at 23°C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly. After pretreatment with KEIM Silan-Primer, the base coat should be applied after approx. 4 hours.

CLEANING OF TOOLS:

Clean immediately with water.

5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
25	kg	24	bucket
5	kg	70	bucket
2.5	kg	80	bucket

6. STORAGE

max. storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed.

7. DISPOSAL

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

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet. EU limit value for this product (Cat. A/c): 40 g/l.

This product contains: 0 - 1 g/l VOC.

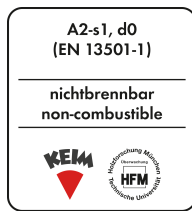
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9. GENERAL INFORMATION

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.