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 has been awarded Cradle to Cradle Certified® Full Scope Silver, Material Health Gold and Circularity Silver in accordance with Version 5.0.

2. FIELD OF APPLICATION

KEIM Granital can be used on all mineral substrates. Thanks to its product properties, KEIM Granital is suitable both for the renovation of older buildings and for use in new-build projects. In combination with the precisely matched product components of the KEIM Granital system, a wide variety of applications are possible.

3. PRODUCT PROPERTIES

- Cradle to Cradle Certified® Full Scope Silver (Version 5.0)
- Cradle to Cradle Certified® Material Health Gold (Version 5.0)
- Cradle to Cradle Certified® Circularity Silver (Version 5.0)
- mineral matt
- non-film forming
- natureplus certified
- QNG compliant
- water-repellent
- permeable
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- weather-resitant
- resistant against industrial emissions
- anti-fungal and anti-algae thanks to ideal moisture balance
- no solvents added

MATERIAL CHARACTERISTICS:

– Density	approx. 1.3 g/cm³ - 1.6 g/cm³
– 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 flux density (V-value)	> 2000 g/(m² · 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
– Water permeability	≤ 0,1 kg/(m²√h)
– Water permeability rate class	W3
– Standard Water permeability rate	DIN EN 1062-3
– Gloss level	G3 – matt (measuring angle 85°)
– Standard Gloss level	ISO 2813

COLOUR SHADES:
White and colour shades are produced exclusively with purely mineral, lightfast pigments. On-site tinting exclusively with KEIM Colour-Concentrate. 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 Fixativ/ 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 precoated 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 Dispersion-Remover or by mechanical methods. A pretreatment with KEIM Silan-Primer is recommended for surfaces exposed to high moisture or weathering.

Non-suitable substrates:
substrates with salt efflorescences; horizontal and inclined surfaces exposed to weathering; wood substrates; plasto-elastic coatings; saponifiable existing substrates; non-wettable substrates

APPLICATION CONDITIONS:
Ensure the ambient and substrate temperatures are ≥ 5 °C during application and drying. Do not apply in direct sunlight or onto substrates heated by the sun. Protect surfaces from direct sunlight, wind and rain during and after application.

MATERIAL PREPARATION:
KEIM Granital must be stirred thoroughly before application.

CONSUMPTION:
0,35 kg/m² for two coatings.
The information on material consumption is a guide for smooth substrates. Exact consumption figures must be determined by carrying out test areas.

PROCESSING:
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.

TOP COAT:

FINISHING:

DRYING TIME:
Can be overcoated after 12 hours at the earliest (at 23°C and 50% RH). At higher relative humidity, greater layer thicknesses or lower temperatures, the drying time is extended 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

6. STORAGE

Maximum 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

Refer to the safety data sheet. EU limit value for this product (Cat. A/c): 40 g/l.
This product contains: 0 - 1 g/l VOC.

GIS code: BSW 10

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.

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
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0
www.keim.com / info@keimfarben.de