



KEIM Granital®

High quality, silicate-based exterior paint in accordance with VOB/C DIN 18 363 2.4.1

1. Product description

KEIM Granital® is a water-repellent, ready-to-apply silicate-based exterior paint in accordance with VOB/C DIN 18 363 2.4.1 (silicate emulsion paint) with absolutely lightfast inorganic pigments and mineral fillers.

2. Field of application

KEIM Granital® may be used on any mineral substrate. Due to its outstanding product characteristics, KEIM Granital® is particularly suitable both for the renovation of old surfaces and in new construction. This product may be used in conjunction with the other products of the coordinated KEIM Granital® system to meet the most varied requirements.

3. Product properties

KEIM Granital® is a proven extremely long-life exterior silicate-based paint with a modified potassium silicate binder. KEIM Granital® has excellent hiding power, is non-yellowing and contains only absolutely lightfast inorganic coloring pigments. KEIM Granital® protects mineral substrates from severe environmental influences such as acid atmospheric conditions.

- non-film-forming
- mineral matt
- non-flammable (DIN 4102-A2)
- heat-resistant
- lightfast
- UV-resistant in all components
- good weathering resistance
- resistant to industrial fumes and acid rain
- highly water-repellent
- extremely vapor permeable
- resistant to fungal and algal growth
- environmentally friendly – contains neither solvents nor pot preservatives
- easily applied by brush thanks to thixotropic formulation
- particularly economic in terms of consumption

Material characteristic

- Specific weight: approx. 1.4 g/cm²

according to DIN EN 1062-1 (FPL expert report)

- Water vapor diffusion density:
 $V \geq 2000 \text{ g}/(\text{m}^2 \cdot \text{d})$
Diffusion-equivalent air-layer thickness: $s_d \leq 0.01 \text{ m}$
(Dry film thickness class V1 ($s_d < 0.14 \text{ m}$) approx. 190 μm)
according to DIN EN ISO 7783-2
- Water permeability rate (24 h):
 $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$
(Dry film thickness class W3 (< 0.1) approx. 252 μm)
according to DIN EN 1062-3
- Gloss at 85°: 0.76
(Dry film thickness class G3, matt (≤ 10) approx. 100 μm) according to ISO 2813

Color shade

White and KEIM's standard range only.
Tint only with KEIM color concentrates.

4. Application instructions

Substrate preparation

The substrate must be sound, dry, absorbent, clean and free of dust and grease. Loose areas, dirt, oily substances, moss and algae must be completely removed. Existing film-forming coatings which impede vapor diffusion and/or are not sound must be removed with the emulsion stripper KEIM Dispersionsentferner or by mechanical means.

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

In the case of highly absorbent or sanding substrates, pretreatment with KEIM Fixativ®, diluted 1:1 or 1:2 with water, or with undiluted KEIM Spezial-Fixativ® is recommended.

Any sinter layers on new renders should be removed with KEIM Ätzflüssigkeit according to the manufacturer's instructions. New areas of render (repairs) should generally be treated with KEIM Ätzflüssigkeit as specified in the Technical Data Sheet.

Pretreatment with KEIM Silangrund is recommended for surfaces exposed to severe moisture or weathering.

Application

KEIM Granital® may be applied by brush, roller or air-



less spraying (nozzle size 0.79 mm). Roller or brush application is recommended for priming coats.

Priming coat: KEIM Granital® diluted, depending on absorbency of substrate, with up to max. 20% KEIM Fixativ® or KEIM Spezial-Fixativ® (25 kg paint plus max. 5 liters diluent)

Finishing coat: KEIM Granital®, undiluted
KEIM Granital®-Grob is used as a priming coat to equalize differences in texture and/or to fill small hairline cracks.

In the case of major differences in texture and/or numerous hairline cracks, KEIM Contact-Plus should be used as the primer.

If the surface is to be subjected to very severe stresses, it is recommended to apply a three-coat system.

KEIM Spezial-Fixativ® is recommended as a diluent on difficult, poor and/or variably absorbent substrates.

Application conditions

Ambient and substrate temperature > + 5°C. Do not apply in direct sunlight or onto sun-heated substrates. Protect coated surfaces from direct sunlight, wind and rain during and after application.

Drying times

A drying time of at least 12 hours must be left between coats. In the case of pretreatment with KEIM Silangrund, the priming coat should be applied after approx. 4 hours.

Consumption

For two coats onto a smooth substrate with KEIM Granital® per m²:

approx. 0.35 kg KEIM Granital®

approx. 0.03 liter KEIM Fixativ® or

KEIM Spezial-Fixativ®

The stated consumption values are for guidance and depend on the nature of the substrate and the application method. Exact consumption values can only be determined by painting trial areas on the structure to be coated.

Cleaning of tools

Clean with plenty of water immediately after use.

During breaks, store tools in the paint or in water.

Third-party additives

In order to preserve the specific characteristics of the Granital® system, no other substances may be added.

5. Packaging

5 kg and 25 kg containers

6. Storage

Storage life is approx. 12 months in a sealed container under cool, but frost-free conditions.

Protect from heat and direct sunlight.

7. Hazardous Substances Ordinance class

n/a.

8. Transport hazard class

n/a.

9. Disposal

EC Waste Code no. 08 01 12

Any residues must be emptied out of containers before recycling.

10. Safety instructions

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics, wood etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with water. Protect the eyes and skin from splashes. Keep out of reach of children.

Product code: M-SK 01

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 supercedes all earlier editions.