

Keim Granital®

Product Information:

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.

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 co-ordinated **Keim Granital** system to meet the most varied requirements.

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 absolute lightfast inorganic colouring 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, anti-static
- Light-fast
- UV resistant in all components
- Good weathering resistance
- Resistant to industrial fumes and acid rain
- Highly water-repellent
- Extremely vapour permeable
- Hinders fungal and algal growth
- Environmentally friendly - neither solvents nor pot preservatives added.
- Easily applied by brush thanks to thixotropic formulation
- Particularly economic in terms of consumption

Material Characteristics:

Specific Weight: Approx. 1.45 g/cm³

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

- Water vapour diffusion density:
diffusion-equivalent air-layer thickness:
(Dry film thickness) $V \geq 2000 \text{ g}/(\text{m}^2 \cdot \text{d})$
 $s_d \leq 0.01 \text{ m}$
class 1 ($s_d < 0.14 \text{ m}$)
approx. 190 μm
- according to DIN EN ISO 778-2
Water permeability rate (24 h):
(Dry film thickness class approx. 252 μm)
According to DIN EN 1062-3
 $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{H}^{0.5})$
class III (< 0.1)
- gloss at 85°: 0.76
(Dry film thickness class, matt (≤ 10))

G3 approx. 100 μm
According to ISO 2813

Colour Shade:

White and Keim's Palette Exclusiv range. Tint only with Keim colour concentrates.

Packaging:

5kg and 25kg containers

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 vapour 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 precoated with Keim Contact-Plus as bridging coat.

Not suitable are plasto-elastic old coatings or coatings susceptible to saponification. 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 manufacturers instructions. New areas of render (repairs) should

generally be treated with Keim Ätzflüssigkeit as specified in the technical datasheet.

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

Application:

Keim Granital may be applied by brush, roller or airless 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 (25kg paint plus max. 5 L diluent)

Finishing coat: Keim Granital undiluted Keim Granital Grob is used 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 temperatures $> + 5^\circ\text{C}$. 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 dry time of at least 12 hours must be left between coats. In the case of pre-treatment with Keim Silangrund, the priming coat should be applied after approx. 4 hours.

Consumption:

For a two coat application on smooth substrate with Keim Granital per m²:

approx. 0.35kg Keim Granital

Approx. 0.03 ltr. Keim Fixativ or Keim Spezial Fixativ

The stated consumption values are for guidance and depend on the nature of 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.

Storage:

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

Protect from heat and direct sunlight.

Hazardous substances ordinance class:

Not applicable

Transport Hazardous class:

Not applicable

Disposal:

EC Waste Code no. 08 01 12

Any residues must be emptied out of containers before recycling.

Safety Instructions:

Provide appropriate protection 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.

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