1. Product Description

KEIM Granital-Grob is a coarse textured filling, potassium silicate tinted priming paint complying with VOB/C DIN 18 363 2.4.1 for the base and intermediate coats within the Granital System. The Granital system is a traditional water-repellent, ready-to-apply historic potassium silicate based exterior paint. It offers water repellency, high vapor permeability and forms a chemical bond with the mineral substrate.

Optional added water repellency can be added with a treatment of KEIM Silan-100 before the first coat of KEIM Granital-Grob.

KEIM Granital-Grob is not suitable for horizontal and slightly inclined surfaces exposed to weathering or floor surfaces.

2. Field of Application

KEIM Granital-Grob serves as a base and intermediate coat within the KEIM Granital system. In certain cases KEIM Granital-Grob can be used as a bridging coat on previously painted surfaces where most but not all of the old coating can be removed. It can also be used to fill non-moving hairline cracks up to 0.3 mm and equalize different textures on the facade. KEIM Granital-Grob is particularly suitable for old historic and new surfaces. Ideal absorbent surfaces include but are not limited to, brick, stucco, historic masonry, stone, lime plasters, mortars, CMU, GFRC, cement boards and renders. In combination with products from the KEIM Granital system a wide variety of application areas are possible. KEIM Granital-Grob cannot be used as a finish coat.

Exceptions not suitable for coating with KEIM Granital-Grob are resin based coatings, plastos- elastomeric coatings, saponifiable old paints (e.g. certain oil-based paints), non-wettable substrates (e.g. lacquers and varnishes).

3. Product Properties

KEIM Granital-Grob is a ready-to-apply, coarse, silicate based priming paint according to VOB/C DIN 18 363 2.4.1 with a modified potassium silicate binder. KEIM Granital-Grob fills hairline cracks and equalizes differences in texture, it is non-yellowing and contains only absolutely lightfast inorganic mineral pigments.

- Non-film-forming
- Mineral matt finish
- Non-flammable – will not burn
- Fills cracks up to 0.3mm wide
- All components UV-stable
- Excellent weathering resistance
- Resistant to industrial pollutants and acid rain
- Highly water-repellent
- Extremely vapor permeable
- Resistant to fungal and algae growth
- No solvents
- LEED - yes
- Easy application
- Very durable even in extreme freeze thaw conditions

Material characteristics

- Specific weight: approx. 1.60 g/cm³
- VOCs (white or tinted) ASTM D6886: 0 g/l
- pH-value: approx. 11
4. Application instructions

Substrate preparation
The substrate must be sound, solid, dry, absorbent, clean and free of dust, grease, oils, salts, moss, algae and other substances that would prevent bonding. Old oil based coatings, loose substrate layers and organically bound coats must be removed. Repair damaged areas before painting.

KEIM Granital-Grob is used on repaired substrates and also on substrates with textural differences or hairline cracks up to 0.3mm.

Larger cracks 0.3 – 0.9mm or strong differences in texture may require a primer coat with KEIM Contact-Plus (0.3 – 0.5mm) or KEIM Contact-Plus-Grob (0.5 – 0.9mm).

Before KEIM Granital-Grob is applied, it is recommended that highly absorbent substrates or surfaces exposed to severe moisture or weathering may be treated with a water-repellent substrate treatment using KEIM Silan-100 to enhance waterproofing. A subsequent base coat of KEIM Granital or Granital-Grob must be applied after approx. 4 to 12 hours drying time for KEIM Silan-100.
KEIM Granital-Grob must always be over coated with 1 - 2 coats of KEIM Granital.

Stir diluted KEIM Granital-Grob before and during application. Neither water nor any other materials may be added. It is important to work wet-in-wet maintaining a wet edge. Work corner to corner or use an architectural feature as a starting and stopping point.

Application conditions
From 41°F up to max. 86°F (+5°C - 30°C) air and substrate temperature.
Only apply in dry weather conditions. Do not apply under direct sun or on sun-heated substrates or in strong wind. After application, surfaces must be protected from strong wind and direct sun until dry (3-6 hours) and from rain until they are cured (12-36 hours). Times depend on temperature and humidity.

Drying times
Dry to touch in 1-3 hours.
For recoating, at least 12 hours between coats.
If a pretreatment of water repellencies was applied allow drying before base coat is applied. Approx. 4 - 12 hours after KEIM Silan-100.

Consumption
The stated consumption figures are guide values for a smooth substrate. Exact values can only be determined by painting test areas on the structure to be coated using tools and techniques that will be used for the final application.
KEIM Granital-Grob
250 - 300 sq.ft./gallon

Mixing with other products
In order to maintain the specific features of KEIM Royalan and the related system products, they may not be mixed with other products or additives nor may they be diluted with water.

5. Packaging
1 gallon
and
4 gallon (packaged in a 5 gal pail)

6. Storage
Shelf life approx. 12 months, if kept cool, but frost-free in tightly closed unopened containers.
Note: Remnants of material from opened containers should be filled in smaller buckets in order to maintain the air content in the bucket at the lowest possible level.

7. Hazardous substances

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.

Tools
Clean immediately after use with water.
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 plenty of 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 supersedes all earlier editions.