

KEIM Soldalit®-Grob KEIM Soldalit®-ME-Grob

Coarse textured variant of KEIM Soldalit for base and intermediate coats



1. Product description

KEIM Soldalit-Grob is a coarse textured filling, Sol-silicate tinted priming paint for the base and intermediate coats within the Soldalit System. KEIM Soldalit is an entirely new binder combination developed by KEIM which includes silica-sol and potassium silicate waterglass. This binder combination not only allows the application of silicate coatings on mineral substrates but also on a large variety of organic substrates, directly and without additional bridging/primer coats. KEIM Soldalit is a new generation of silicate paint, the **sol-silicate** paint, allowing a wide variety of applications.

KEIM Soldalit contains weather-resistant fillers and pure inorganic pigments. It combines all the advantages of the classical silicate paint with the ability to bond to a variety of substrates even most organic bound paint systems.

KEIM Soldalit as well meets the requirements of DIN 18.363, 2.4.1 „silicate emulsion paint“.

2. Field of application

KEIM Soldalit-Grob is used as base or intermediate coat to equalize textural differences or to fill fine hairline cracks up to 0.3mm when renovating or coating sound acrylic and silicone resin-based coatings, acrylic stucco, terracotta, brick, historic masonry and many other mineral substrates. Exceptions not suitable for coating with Soldalit-Grob are plasto-elastomeric coatings, saponifiable old paints (e.g. certain oil-based paints), non-wettable substrates (e.g. lacquers and varnishes).

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

KEIM Soldalit-Grob is not a finish coat and can only be used as a base and or intermediate coat.

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

3. Product properties

- Sol-Silicate binder system
- All-surface application
- Anti-static - walls stay clean longer
- Pollution resistant
- Extreme weather resistance
- Non-flammable (acc. to DIN 4102-A2)
- Lightfast will not fade
- Mineral matt finish
- Water vapor permeable, microporous
- Non-film-forming will not peel
- Highly water-repellent
- No solvents and plasticizers
- Algae and fungi resistant
- Crack filling up to 0.3mm

Material characteristics

- Specific weight: approx. 1.6 g/cm³
- VOCs (white or tinted) ASTM D6886: <1g/l
- Organic content: < 5%
- pH-value: approx. 11
- Lightfastness of color pigment: A1
(Fb-code acc. to BFS instruction sheet No. 26)
- Vapor Permeability ASTM E96: 77 Perms
- Accelerated weathering ASTM G154 2016 hours:
Pass - No change, no deterioration of any type
- Wind driven rain ASTM E514: Pass - No water leakage

According to Din EN 1062-1

- Water vapor diffusion density: $V \geq 2100 \text{ g}/(\text{m}^2 \cdot \text{d})$



- Diffusion-equivalent air layer thickness: $s_d \leq 0.01$ m
to DIN EN ISO 7783-2 Class I
- Water permeability rate (24 h): $w < 0.1$ kg/(m² · h^{0.5})
to DIN EN 1062-3 Class III
- Gloss at 85° to ISO 2813: matt 0.5

Color shades

White and tinted according to KEIM Soldalit and KEIM Soldalit-ME finish coat. As a base and intermediate coat it is always tinted approx. 2 shades lighter than the finish coat.

Please note

The mixing and blending with products not part of the system is not admissible! This applies also for KEIM products which are not part of the Soldalit-System.

4. Application instructions

Substrate preparation

The substrate must be sound, solid, dry, 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 loose organically bound coats must be removed. Repair damaged areas before painting.

For repaired substrates and also on substrates with textural differences or hairline cracks up to 0.3mm use KEIM Soldalit-Grob as the base coat.

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 Soldalit-Grob is applied, highly absorbent substrates like terracotta or surfaces exposed to severe weather may be treated with a

water-repellent substrate treatment using KEIM Silan-100 to enhance waterproofing. A subsequent base coat of KEIM Soldalit-Grob must be applied after approx. 4 to 12 hours drying time for KEIM Silan-100.

Soft, porous surfaces or old existing mineral coats may be stabilized by pre-treatment with KEIM Soldalit-Dilution.

New mortar or masonry surfaces may require treatment with KEIM Lime Remover before painting if they have a sinter layer

Application

KEIM Soldalit-Grob may be applied by brush, roller or spraying (airless nozzle 537: 0.94 mm/0.037 in.).

A minimum drying time of 12 hours between coats is required.

Base coat: KEIM Soldalit-Grob diluted up to maximum of 10% (12.8 oz/gallon) with KEIM Soldalit-Dilution.

Intermediate coat: KEIM Soldalit-Grob diluted up to maximum of 5% (6.4 oz/gallon) with KEIM Soldalit-Dilution.

Stir diluted KEIM Soldalit-Grob before and during application. Neither water nor any other materials may be added. 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; up to max. 80% relative humidity.

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.

For the finish coat, allow 12-36 hours.

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 Soldalit-Grob

270 - 320 sq.ft./gallon

Cleaning of tools

Clean immediately after use 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 ordinance class

n/a

Classification according to flammable liquids ordinance

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 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 ea

