



TECHNICAL DATA SHEET

KEIM SOLDALIT®

1. PRODUCT DESCRIPTION

KEIM Soldalit is a highly specialised silicate facade paint based on a proven binder combination of silica sol and water glass. This binder combination allows silicate coatings not only on mineral but also on a wide range of organic substrates – directly and without additional bonding bridges. Filled and pigmented with weather-resistant fillers and purely inorganic pigments, it combines KEIM Soldalit all the benefits of classic dispersion silicate paint with the substrate versatility of organically bound paint systems. KEIM Soldalit also satisfies the requirements of DIN 18363 para. 2.4.1 "Dispersion silicate paint". KEIM Soldalit is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

2. FIELD OF APPLICATION

KEIM Soldalit is suitable for renovation and new coating of load-bearing, dispersion- and silicone resin-bound paints and plasters as well as for mineral substrates.

Not suitable for:

horizontal and inclined surfaces exposed to weathering; wood substrates; plasto-elastic coatings; saponifiable existing substrates; non-wettable substrates

3. PRODUCT PROPERTIES

- excellent application properties
- universally applicable
- Cradle to Cradle Certified®-Certificate Silver
- C2C Certified Material Health Certificate™ Gold
- natureplus certified
- QNG-konform
- highly permeable
- highly water-repellent
- antistatic, non-thermoplastic
- highly weather-resistant
- absolutely lightfast
- anti-fungal and anti-algae thanks to ideal moisture balance
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- no solvents added
- no plasticisers added

MATERIAL CHARACTERISTICS:

– Density:	approx. 1.5 - 1.7 g/cm ³
– 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 current density (V-value):	$\geq 2000 \text{ g}/(\text{m}^2 \cdot \text{d})$
– Diffusion-equivalent air layer thickness (sd-value):	$\leq 0,01 \text{ m}$
– Diffusion-equivalent air layer thickness class:	V1
– Standard Diffusion equivalent air layer thickness:	DIN EN ISO 7783
– Water permeability:	$< 0,1 \text{ kg}/(\text{m}^2 \cdot \sqrt{\text{h}})$
– 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, colour shades only with purely mineral and light-resistant pigments. KEIM Soldalit can be tinted via KEIM Local Colour Studio® with KEIM PPF-Technology® according to all common colour collections.

Please always check the colour shade for correctness before application. Within a surface, use only tinted paint material from the same tinting batch. On-site tinting exclusively with system related monochrome shades/full-tone colours monochrome shades 9001S to 9012S available. When selecting the colour shade for ETICS, observe LRV ≥ 30 .

COMPOSITION

Full declaration in compliance with the "natureplus®" award guideline:

Silicate and calcite fillers, sol-silicate mixture, water, titanium dioxide, polyacrylate, hydrophobing agents, stabilisers, thickeners, wetting agents, defoamers.

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. Highly absorbent surfaces are to be primed with KEIM Soldalit-Fixativ. For repaired substrates as well as for substrates with structural differences or hairline cracks, the base coat should be performed with the higher filled KEIM Soldalit-Grob instead of KEIM Soldalit. In case of larger cracks or strong structural differences, a primer coat with KEIM Contact-Plus may be necessary instead of KEIM Soldalit-Grob.

APPLICATION CONDITIONS:

Ambient and substrate temperature $\geq 5^\circ \text{C}$ during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

PREPARATION OF MATERIAL:

Stir up KEIM Soldalit thoroughly before application.

CONSUMPTION:

approx. $0,45 \text{ kg}/\text{m}^2$ for two coatings.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

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APPLICATION:

KEIM Soldalit can be painted, rolled or airless sprayed (nozzle: ≥ 435).

Primer coat: Apply KEIM Soldalit normally undiluted or depending on the absorbency of the substrate, diluted up to max. 5 % with KEIM Soldalit-Fixativ. Dilution up to max. 10 % with KEIM Soldalit-Fixativ is possible in case of highly absorbent substrates.

Final coat: Apply KEIM Soldalit undiluted.

DRYING TIME:

Can be overcoated after 12 hours at the earliest (at 23°C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

CLEANING OF TOOLS:

Clean immediately with water.

5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
18	kg	32	bucket
5	kg	70	bucket
2.5	kg	80	bucket

6. STORAGE

max. storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed.

Material residues from opened containers should be refilled into smaller containers to keep the air space in the bucket as low as possible.

7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet. EU limit value for this product (Cat. A/c): 40 g/l.

This product contains: 0 - 3 g/l VOC.

GISCODE:

9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign 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.



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