



TECHNICAL DATA SHEET

KEIM SOLDALIT®-COOLIT

1. PRODUCT DESCRIPTION

KEIM Soldalit-Coolit is an innovative facade paint used to reduce solar heating in dark colour tones. KEIM Soldalit-Coolit is a sol-silicate paint of the latest generation and is suitable for painting on mineral substrates and on stable organic old coatings. KEIM Soldalit-Coolit fulfils the requirements of DIN 18363 para. 2.4.1 "Dispersion silicate paints" and offers a wide universal application spectrum and simple and safe handling in application due to the proven combination of silica sol and water glass.

2. FIELD OF APPLICATION

KEIM Soldalit-Coolit 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

- universally applicable
- reflects near-infrared parts of the sunlight
- reduces the solar heating of facade surfaces
- permeable
- highly water-repellent
- microporous
- antistatic, non-thermoplastic
- highly weather-resistant
- absolutely lightfast
- anti-fungal and anti-algae thanks to ideal moisture balance
- acid-proof
- 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): | ≥ 2000 g/(m ² · d) |
| - Diffusion-equivalent air layer thickness (sd-value): | ≤ 0,01 m |

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- Diffusion-equivalent air layer thickness class:	V1
- Test standard Diffusion equivalent air layer thickness:	DIN EN ISO 7783
- Water permeability:	$\leq 0,1 \text{ kg}/(\text{m}^2\sqrt{\text{h}})$
- Water permeability rate class:	W3
- Test standard Water permeability rate:	DIN EN 1062-3
- Gloss level at 85°:	matt
- Test standard Gloss level:	ISO 2813

COLOUR SHADES:

With a few exceptions, colours available according to KEIM Palette Exclusive and KEIM Colour Chart Avantgarde. Monochrome shades S9009 and S9012 are not available (S9008 can be supplied in accordance with KEIM Palette, TSR value of all shades >30). KEIM Coolit technology is particularly recommended on ETICS for colour shades with HBW < 20. HBW < 5 is not possible on ETICS! KEIM Soldalit-Coolit can be used on all KEIM ETICS systems according to general building authority approval Z-33.43-185, Z-33.4.1-45, Z-33.44-188. In the case of dark colour designs, we recommend using the top coat tinted in accordance with the final coat. The use on existing ETICS or systems of unknown origin or other highly insulating constructions is permissible if it can be assumed that the construction with a TSR value of the coating of > 25 is considered thermally safe.

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 Ätzflüssigkeit (lime remover) according to instructions. New render areas (repairs) are generally to be pretreated with KEIM Ätzflüssigkeit (lime remover) 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-Coolit Soldalit-Grob instead of KEIM Soldalit-Coolit. 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 $\geq 5 \text{ °C}$ 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-Coolit thoroughly before application.

APPLICATION:

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

Primer coat: Apply KEIM Soldalit-Coolit in the normal case undiluted or depending on the absorbency of the substrate, diluted up to $\leq 5 \%$ with KEIM Soldalit-Fixativ.

Final coat: Apply KEIM Soldalit-Coolit 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.

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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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.

STORAGE INFORMATION:

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.

EC WASTE CODE:

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

GISCODE:

GIS code: BSW 40

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.



KEIMFARBEN GMBH

Keimstraße 16 / 86420 Diedorf / Tel. +49 821 4802-0 / Fax +49 821 4802-210
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0 / Fax +49 35456 676-38
www.keim.com / info@keimfarben.de