



TECHNICAL DATA SHEET

KEIM SOLDALIT®-ME

1. PRODUCT DESCRIPTION

KEIM Soldalit-ME is a highly specialised, sol-silicate exterior paint with a photocatalytic action. KEIM Soldalit-ME meets the requirements of DIN 18.363, 2.4.1 „silicate emulsion paint“.

2. FIELD OF APPLICATION

KEIM Soldalit-ME is well suited for the renovation and first coating of sound dispersion- and silicone resin-based old coatings and renders as well as for mineral substrates and mixed substrates. Exceptions are wood, plasto-elastic coatings, saponifiable old paints (e.g. certain oil-based paints) and non-wettable substrates (e.g. lacquers and varnishes).

Not suitable for horizontal and inclined surfaces exposed to weathering.

3. PRODUCT PROPERTIES

- Binder basis: combination of silica sol and water glass (= sol-silicate)
- Multipurpose application
- Photocatalytic action
- No biocides added
- Reduces toxic gases (e.g. NO_x, VOCs) and organic pollutants
- UV- and acid-resistant, anti-static
- Highly weather-resistant
- Alkaline, therefore no pot preservatives
- Non-flammable (class A2-s1,d0 as per EN 13501-1, acc. to classification report)
- Lightfast pigmented
- Mineral matt
- Open to diffusion, non-film-forming, microporous
- Highly water-repellent
- No solvents or plasticisers added
- Anti-fungal and anti-algal activity thanks to ideal moisture balance and photocatalytic effect
- Without addition of biocides

Material characteristics:

- Specific weight: approx. 1.5 - 1.6 g/cm³
- Organic content: < 5%
- pH-value: approx. 11
- Colour fastness: A1
(Colour code acc. to BFS technical information No. 26)

According to Din EN 1062-1:

(Details see certificate FPL)

- Water vapour diffusion rate: $V \geq 2000 \text{ g}/(\text{m}^2 \cdot \text{d})$
- Diffusion-equivalent air layer thickness: $s_d \leq 0,01 \text{ m}$
Class I ($s_d < 0,14 \text{ m}$)
to DIN EN ISO 7783-2
- Water permeability rate (24 h): $w < 0,1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$
Class III ($< 0,1$)
to DIN EN 1062-3
- Gloss at 85°: 1,5
matt (≤ 10)
to ISO 2813

Colour shades:

White, KEIM Palette Exklusiv and KEIM Avantgarde colour swatches. No monochrome shades available. Tinting only factory-made.

Please note:

The mixing and blending with products not part of the system is not allowed!

4. APPLICATION INSTRUCTIONS

Substrate preparation:

The substrate must be dry, sound, non-chalking, clean and dust-free. Remove any loose parts of old coatings mechanically or by water jetting. Fill and texture-match any defects with a suitable repair material. Remove sinter. Strongly absorbent areas should be primed with KEIM Soldalit-Fixativ.

For repaired substrates and substrates with textural differences or hairline cracks use KEIM Soldalit-ME-Grob (=higher filled) as base coat instead of KEIM Soldalit-ME.

Larger cracks or strong differences in texture may require a base coat with KEIM Contact-Plus instead of KEIM Soldalit-ME-Grob.

Application:

KEIM Soldalit-ME may be applied by paint brush, roller or airless sprayer (nozzle size: 435. For more information see TDS Airless Technique). A minimum drying time of 12 hours between the base and the top coat is required.

Base coat:

Apply KEIM Soldalit-ME normally undiluted or dilute with



up to approx. 5%. For strongly absorbent substrates the paint material can be diluted with up to max. 10% KEIM Soldalit-Fixativ (max. 2.5 l per 25 kg paint).

Top coat:
Apply KEIM Soldalit-ME undiluted.

Recommendation:
In case of repairs after the main coating application the over-working with undiluted material with a roller offers the best results.

Application conditions:

Ambient and substrate temperature > +5 °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.

Consumption:

For two coats on a smooth substrate: approx. 0.45 kg/m² KEIM Soldalit-ME

This consumption value is a guide value. Exact values can only be determined by painting trial areas on the structure to be coated.

Cleaning of tools:

Clean immediately after use with water.

5. PACKAGING

5 kg and 25 kg buckets

6. STORAGE

12 months in sealed container, if kept cool and frost-free.
Protect from heat and direct sun.

7. DISPOSAL

EC Waste Code No. 08 01 12
Any residues must be emptied out of containers before recycling.

8. SAFETY INSTRUCTIONS

Giscode: BSW10

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.

Please refer to EC Safety Data Sheet.

9. 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 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.



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