

KEIM SOLDALIT®

Highly specialized, silicate exterior paint system

May 2024

PRODUCT:

Keim Soldalit is a highly specialised, silicate exterior paint system with an entirely new binder combination of silica sol and water glass. This binder combination not only allows the application of silicate coatings on mineral substrates, directly and without additional bridging coats. KEIM Soldalit is therefore the basis for a new generation of silicate paint, the Sol-Silicate paint, allowing a so far unknown variety of applications.

It comprises weather-resistant fillers and pure inorganic pigments and combines all the advantages of the classical dispersion silicate paint with the variety of substrates of organic bound paint systems.

Keim Soldalit as well meets the requirements of DIN 18.363, 2.4.1 "Dispersion silicate paint".

FIELD OF APPLICATION:

Keim Soldalit is well suited for the renovation and coating of well-adhering organic substrates especially dispersion and silicone resin-based coatings and renders as well as for mineral substrates.

Exceptions are plasto-elastic coatings, saponifiable old paints (eg. certain oil-based paints), not-wettable substrates (e.g. lacquers and varnishes) as well as EIFS and ALC building slabs.

STANDARD PACKS:

5 & 25 kg buckets.

PROPERTIES:

- Binder basis: combination of silica sol and water glass (=Sol-Silicate)
- Universal application
- Acid resistant
- Highly weather-resistant
- Alkaline, therefore no conservers
- Non flammable (acc. to DIN 4102-A2)
- Open to water vapour diffusion, non-film forming, microporous
- Highly water-repellent
- Does not contain solvents and plasticisers.

TECHNICAL DATA:

Material Characteristics	Keim Soldalit
Specific gravity	Appr. 1.6 g/cm ³
Sd-value	Sd=0.02 m
W-value	W<0.10 kg/m ² .h0.5
Organic content	<5%
pH-value	Appr. 11

COLOURS:

White and colours of the Keim-Palette Exklusiv. Tinting only with the Keim Soldalit-Monochrome colours. The monochrome colours are available following Keim-PaletteExklusiv, shades 9001-9010.

Please note: The mixing and blending with products not part of the system is not admissible. This applies as well for Keim products which are not part of the Soldalit system.

Key Benefits Summary:

- The first silicate bound exterior paint with a truly universal character.
- Safe on organic and mineral substrates using the sol-silicate principle.
- High security and ease in application.
- Accelerated binding.
- Homogeneous, silicate matt surface appearance.
- Absolutely lightfast and UV resistant.
- Innovative and future-orientated; patent pending.

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SUBSTRATE PREPARATION:

The substrate must be sound, dry, non-chalking, clean, dust and grease free. Loose and brittle parts are to be removed mechanically or by water pressure jet. Missing parts are to be repaired and equalised in structure with a suitable repair material. Sinter layers must be removed. Strongly absorbent areas should be primed with Keim Soldalit Fixativ.

On repaired surfaces as well as on substrates with textural differences or hairline cracks a base coat with Keim Soldalit Grob (=highly filled) instead of Keim Soldalit paint should be applied.

Larger cracks or strong differences in texture may possibly necessitate a base coat with Keim Contact-Plus instead of Keim Soldalit Grob.

APPLICATION:

Keim Soldalit may be applied by brush, roller or airless spraying equipment (nozzle size: 0.79mm).

Drying time: A minimum drying time of 12 hours between the different coats of the **Soldalit** system is required.

Base coat: Keim Soldalit is to be applied undiluted. In case of highly absorbent substrates the product may be diluted with up to max. 10% (up to max 2.5 l per 25kg paint) of Keim Soldalit Fixativ.

Final coat: Keim Soldalit undiluted.

Working conditions: Air and surface temperature >5°C.

Application only under dry conditions. Do not apply under direct sun, on heated surfaces or strong wind. Substrates should be protected after application from too fast drying, wind and rain.

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

CONSUMPTION:

Consumption rates per 10.5 sq.ft. (1 m²)

Two coat system on smooth substrates: appr. 0.45 kg/m² Keim Soldalit.

These consumption figures are typical values and strongly depend upon the texture of the substrate as well as on the application procedure. Exact consumption ratios may only be defined by trial applications on the project.

TOOLS:

Clean immediately after use with water.

STORAGE:

Approx. 6 months, if kept cool, free from frost in tightly closed containers. Please note: Remnants of material from opened containers are to be filled in smaller buckets in order to maintain the air content in the bucket at the lowest possible level.

Identification ref ordinance of dangerous materials	Not applicable
Danger class in goods traffic	Not applicable

DISPOSAL:

Dispose completely emptied containers in accordance with local, state and federal regulations.

HEALTH AND SAFETY:

All areas which are not to be coated with Keim Soldalit eg. glass, natural stone, ceramics, wood, etc., are to be protected by suitable measures. Splashes on these or traffic and other surrounding areas must be removed immediately with plenty of water.

Protect eyes and skin from splashes. Do not swallow. Keep out of reach of children.

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WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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MANUFACTURERS CONTACT DETAILS:

Manufacture location	Germany
Legal and trading name of manufacturer	KEIMFARBEN GMBH
Manufacturer address for service	86420 Diedorf, Keimstraße 16
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