

COLORS FOREVER.



KEIM SOLDALIT – ALL-SURFACE EXTERIOR MINERAL SOL-SILICATE FINISH

For masonry and concrete

FEATURES & BENEFITS

- › 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 vapour permeable, microporous
- › Non-film-forming will not peel
- › Highly water-repellent
- › No solvents and plasticizers
- › Algae and fungi resistant

HAZARDOUS SUBSTANCES ORDINANCE CLASS

n/a

CLASSIFICATION ACCORDING TO FLAMMABLE LIQUIDS ORDINANCE

n/a

TRANSPORT HAZARD CLASS

n/a

KEIM Soldalit is a specialized, Sol-silicate exterior paint with 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”.

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 use KEIM Soldalit-Grob as the base coat instead of KEIM Soldalit.

Larger cracks or strong differences in texture may require a primer coat with KEIM Contact-Plus or KEIM Contact-Plus-Grob.

Before KEIM Soldalit or 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 or 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

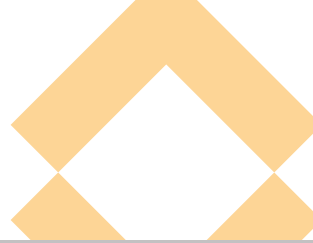
KEIM Soldalit is typically a 2-3 coat system applied by brush, roller or airless spraying (nozzle size: 0.65 mm/0.027 in.).

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

Two-coat-system

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

Finish/Top coat: KEIM Soldalit undiluted.



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FIELD OF APPLICATION

SOLDALIT is applied typically as a 2 or 3 coat system and is recommended for new construction and renovation of sound acrylic and silicone resin-based paints, acrylic stucco, terracotta, bare masonry, concrete, stone and most other mineral substrates. It is ideal for restoration of historic structures and facades due to high vapour permeability coupled with water repellency.

Do not use SOLDALIT over aged alkyd or oil-based paints, varnish or lacquer.

SOLDALIT is suitable for vertical facade installations and inclined surfaces. Do not use on floors.

KEIM Soldalit is typically a 2 or 3 coat system well suited for the renovation and coating of sound acrylic and silicone resin-based coatings, acrylic stucco, terracotta, brick, historic masonry and many other mineral substrates.

Exceptions:

Exceptions not suitable for coating with Soldalit 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.

Additional applications are as base and top coat followed by a low-pigmented finish (colour wash effect) with the KEIM Design-Lasur system.

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

USAGE

outdoor / indoor

Three-coat-system

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

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

Finish/Top coat: KEIM Soldalit undiluted.

Stir diluted KEIM Soldalit and KEIM Soldalit-Grob before and during application. Neither water nor any other materials may be added. For the finish coat it is important to work swiftly wet-in-wet maintaining a wet edge. Work corner to corner or use an architectural feature as a starting and stopping point.

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

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.

COLOUR SHADES

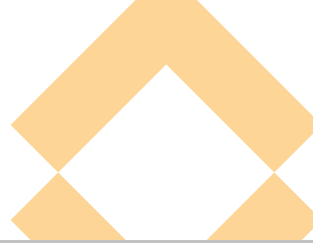
White and the KEIM Palette Exclusiv and KEIM Avantgarde colour swatches.

KEIM also offers custom matching to your colour selection within our natural mineral range.

CONSUMPTION

300-350 sq. ft./gallon

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.



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PACKAGING

1 gallon and 4 gallon (packaged in a 5 gal pail).

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.

CLEANING OF TOOLS

Clean immediately after use with water.

DISPOSAL

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

CAUTION

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

TECHNICAL DATA

DENSITY	1.6 g/cm ³
VOC (ASTM D6886)	< 1 g/liter
ORGANIC CONTENT	< 5%
CURED PH VALUE	Approximately 11
VAPOR DIFFUSION	sd (H ₂ O) = < 0.01 m
WATER ABSORPTION COEFFICIENT	W=0.20 kg/m ² h 0.5 (acc. to DIN EN 1504)
LIGHTFASTNESS OF COLOR PIGMENT (FB-CODE ACC. TO BFS TECHNICAL BULLETIN NO. 26)	A1 Best in class rating No color change after 4 years
VAPOR PERMEABILITY (ASTM E96)	77 Perms
FLASHPOINT	Non-Flammable
ACCELERATED WEATHERING ASTM G154	2016 Hours Passes No change or deterioration of any type
WIND DRIVEN RAIN ASTM E514	Passes—No water leakage
MILDEW RESISTANCE ASTM D3273/D3274	Passes—No fungal growth
ALKALI RESISTANCE ASTM D1308	Passes—no visible change at 24 hours
CHLORIDE ION PERMEABILITY	Permeability Class: Very Low
SURFACE BURNING CHARACTERISTICS ASTM E 84-08	Class A Flame Spread Index = 0; Smoke Developed Index = 0
GLOSS AT 85° ISO 2813	0.5 Mineral Matte Flat

All test results performed on 2 coats Soldalit applied at 300—350 sf/gallon

Note: The contents of this Technical Data Sheet are updated regularly. To ensure that you have the most recent version, please visit our website at the following address: www.king-masonry.com

This product is designed to meet the performance specifications outlined in this product Technical Data Sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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SIKA CANADA INC.

Head Office

601 avenue Delmar
Pointe-Claire, QC H9R 4A9

Other Locations

Boisbriand (Quebec)
Brantford; Cambridge; Sudbury; Toronto (Ontario)

Edmonton (Alberta)
Surrey (British Columbia)