KEIM Soldalit
Exterior Paint and Finishing System

since1878

a new generation sol silicate finish

recommended for previously painted and mixed mineral substrates.
MasterFormat™ Division 09 - Finishes

(See Back Cover for suggested division listings)

KEIM Soldalit

optimizes the binding power of two elements, silica sol and potassium silicate.

- requires only simple prep for renovation
- complements building physics - keeping envelopes dry
- extremely long service life
- excellent economic viability
- sustainable and green

naturally compatible

With the binding power of sol silicate, Soldalit can be applied to existing organic paints or mixed mineral substrates. As organic paints weather/deteriorate the substrate becomes exposed through cracks and thin paint layers. Soldalit will bond to any remaining sound organic paint and it will penetrate and chemically bond to the exposed mineral substrate.

Soldalit forms a highly vapor permeable coating that is naturally water resistant. The high vapor permeability allows moisture to diffuse out from within the substrate keeping walls dry. At 77 perms, Soldalit will not reduce the vapor permeability of existing substrates or organic coatings.

lightfast color and refraction

KEIM's Inorganic mineral pigments are unaffected by UV light, so colors do not fade. The mineral colors of Soldalit refract light for a stunning appearance bringing life to buildings. KEIM's unique sol silicate chemistry does not attract dirt maintaining a clean surface. Available in over 350 standard colors and custom colors.

weathering protection

As the Soldalit dries it forms permanent chemical bonds to the substrate. This chemical bonding results in a mineral structure that is naturally resistant to water and salts while completely resisting attack from air pollutants and acid rain. Soldalit is suitable for all climate conditions and UV exposures providing protection for decades.

Nothing compares to KEIM's natural composition and sol silicate binding strength for exterior protection.

Design professionals trust KEIM mineral coatings to endure for decades.

From modern contemporary to old world appeal, this is the spectrum of KEIM.

economical

The unique chemistry of Soldalit permits coating over existing organic paints without a bonding bridge. Huge savings may be realized by coating over well-adhering resin and acrylic paints thus protecting them from further decay. Soldalit may be applied over mixed substrates without priming. The protection of Soldalit lasts for decades.

environmental responsibility

KEIM Soldalit is made from natural ingredients with no VOCs, this is one of its many unique qualities. Soldalit is a sustainable coating and part of the natural cycle of minerals on earth. Its green characteristics extend to the environmentally-friendly production of KEIM products in accordance with ISO 14001:2004.

fire safety

KEIM Soldalit will not burn, smoke or produce poisonous gases. Soldalit is completely incombustible.

health and beauty

The natural chemistry of KEIM Soldalit leaves nothing behind but lasting beauty. Independent testing finds no VOCs, Soldalit has no odor or chemical residues. When applied over existing coatings, vapor diffusion of the substrate remains unchanged due to its high vapor permeability. Soldalit's amorphous microporous structure and inorganic chemistry provide natural resistance against mold, lichen and algae growth.

KEIM façade system

KEIM Soldalit coating products

KEIM Soldalit

A sol silicate ready-to-use exterior coating for outstanding performance in all climates. Excellent for over-coating organic paints or mixed mineral substrates, or any combination of these substrates for unusually long life. KEIM Soldalit is water resistant yet highly vapor permeable. Dilute with KEIM Soldalit Dilution. Dries flat matte. No VOCs.

KEIM Soldlit Dilution

A sol silicate-based diluent, used to thin coatings for application and use as primer coat to control absorption on highly absorbing substrates. Very low VOCs. (< 1g/l)

KEIM Soldalit Grob

A sol silicate based filled priming coat containing sand (0-0.5mm grains) and mineral fillers used to fill hairline cracks and crazing, opaque white, may be tinted. Dilute with KEIM Soldalit Dilution. No VOCs.

KEIM Contact Plus

A silicate-based primer/bridging coating containing sand (0-0.5mm grains) and mineral fillers for bridging over existing synthetic resin-bound paint layers or to create texture on smooth surfaces. Used to fill hairline cracks up to 0.5mm or equalization and renovation of surfaces for a uniform appearance, opaque white. Very low VOCs. (< 1 g/l)

permeability, weathering, and wind-driven rain ASTM test results

	Test Results
ASTM E 96, ***Test Methods for Water Vapor Transmission of Materials***	**Permeance = 77 Perms. KEIM Soldalit is highly vapor permeable.**
ASTM G 154, ***Accelerated Weathering Test 2016 hours***	**No signs of any type of deterioration including Crazing, Cracking, Chipping, Flaking, or Chalking. KEIM Soldalit endures for decades.**
ASTM E 514, ***Wind-Driven Rain Test 4 hour test***	**The test walls coated with KEIM Soldalit allowed no water to leak through while an untreated wall allowed water to flow through at a rate of 0.06 gallons/hour. *After 4 hours against 62 MPH wind,* the uncoated wall facing the wind-driven rain showed dampness on 85% of the area while the wall coated with Keim Soldalit showed only slight dampness on 2% of the area. KEIM Soldalit is very water resistant.**
ASTM D 6886–12, ***Standard Test Method for Individual Volatile Organic Compounds (VOCs)***	**No VOCs found.**

KEIM preparation and renovation products

KEIM Lime Remover

For use on new render (stucco) to remove sinter layers or for light lime efflorescence. KEIM Lime Remover is completely neutralized when correctly used. No VOCs.

KEIM Bio Stripper

A paint stripper for removing elastomeric latex, acrylic, or resin film-forming coatings. Water-emulsive mixture of solvents, free of fluorinated, chlorinated, and aromatic hydrocarbons. Biodegradable.

KEIM Concrete Cleaner

A silicic acid cleaner for removing sinter layers, light lime efflorescence, surface impurities, and mold release oils from concrete. KEIM Concrete Cleaner is completely neutralized when correctly used. No VOCs.

KEIM Universal-putz Standard Render

A cementitious renovation and thin wall render/plaster/stucco made of hydraulic lime and white cement binders with quartz sand (0 to 1.3mm grains) and mineral fiber fillers. KEIM Universalputz Render accommodates thermal expansion cycles preventing surface crazing and cracking. The white surface may be finished from rough-hewn to coarsely smooth with infinite texturing possibilities resembling the appearance of lime plaster. No VOCs.

KEIM Universal-putz Fine Render

Same as UniversalPutz Standard a cementitious renovation and thin wall render/plaster/stucco made of hydraulic lime and white cement binders with fine quartz sand grains between 0 to 0.6mm in size. Surface may be finished from sandy to smooth, resembling the appearance of white lime plaster. No VOCs.

KEIM Fiber Mesh

A glass fiber lattice mat for reinforcing rendered surfaces. Embed into KEIM renders when applying on CMU or similar block, brick or existing render/stucco/plaster. No VOCs.

KEIM Silan 100

An alkylalkoxysilane based water repellency with 100 percent active ingredient that may be used as a primer under a KEIM silicate coating or as a standalone treatment. Very low VOCs (< 10 g/l).

KEIM I&F Grund

A powerful combination stain blocker and bridge coat primer. Prevents underlying stains from bleeding through finish coating. Vapor permeable, Solvent-based, exterior use only.

KEIM Sealer

Proprietary solvent-free polyurethane based transparent sealer. Apply on horizontal surfaces under or over KEIM silicate coatings to prevent water intrusion. KEIM Sealer is highly UV resistant. Very low VOCs (< 9 g/l).

Need more information

Email us at:
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Download product spec sheet PDF files at:
www.keim.com

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how to apply KEIM Soldalit

Soldalit is of the KEIM family of mineral silicate based coatings. Developed for over-coating a wide range of substrates including those previously painted with organic paints and engineered to have superior performance in all climates. Complementary products provide a complete system for new construction, renovation and restoration.

Soldalit may be applied onto any previously painted organic or mixed mineral substrate including mineral renders, concrete, stone, brick, CMU block, autoclaved aerated concrete (AAC), Stucco, and EFIS.

Apply by brush, roller or professional spray equipment keeping a wet edge from corner to corner. Clean up with water. Areas may be occupied immediately after application.

See technical data sheets for comprehensive application information.

MasterFormat™ Division 09 - Finishes
Applicable Sections:

09 90 00 Painting and Coating
09 91 13 Exterior Painting

09 96 00 High-Performance Coatings

09 97 00 Special Coatings
09 97 26 Sol Silicate Finishes

member

The Construction Specifications Institute

Association for Preservation Technology

National Trust for Historic Preservation

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KEIM is certified for establishing and applying an ISO 9001:2000 Quality Management System and an ISO 14001:2004 Environmental Management System.

the original silicate coating since 1878

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