

KEIM exterior coatings



since 1878



a new generation sol silicate coating

KEIM Soldalit

recommended for previously painted and mixed mineral substrates.

MasterFormat™ Division 09 - Finishes

(See Back Cover for complete division listings)



KEIM Soldalit

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

- simple prep for renovation
- outstanding building physics
- extremely long service life
- excellent economic viability
- sustainable and green



naturally compatible

With the binding power of sol silicate, Soldalit is at home over existing organic paints or mixed mineral substrates. Eventually, organic paints deteriorate to expose the substrate. Soldalit bonds to any remaining sound organic paint as it penetrates and chemically bonds to the exposed mineral substrate.

Soldalit forms a highly vapor permeable micro-porous coating. Naturally water resistant, these tiny pores allow moisture to diffuse out from within the substrate. At 77 perms, Soldalit will not reduce the vapor permeability of existing substrates or organic paints.

lightfast color and refraction

Soldalit's inorganic mineral pigments are unaffected by UV light, even at high altitudes.

The mineral colors of Soldalit refract light for a pleasant attractive appearance, even in low light. KEIM's unique anti-static sol silicate chemistry maintains a clean surface. Available in over 250 standard KEIM mineral colors plus custom colors.

weathering protection

The ionic and chemical reaction of the sol silicate binder forms a permanent bond to the substrate. Developing a micro-porous mineral structure, it is naturally resistant to water and salts while completely resisting attack from air pollutants and acid rain. Soldalit is designed for all climate conditions, all UV exposures, for protection that lasts 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 plasticized 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

Natural ingredients and very low VOC are of the many unique qualities of KEIM Soldalit. Soldalit is a sustainable product. Its green characteristics extend to the environmentally-friendly production of our 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. At less than 2g/l VOC, 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 micro-porous structure and inorganic chemistry provide natural resistance against mold, lichen and algae growth.



KEIM façade system

KEIM Soldalit coating products

KEIM Soldalit



KEIM Soldalit. Sol silicate ready-to-use exterior coating. Engineered 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. Very low VOC (less than 2 g/l tinted).

KEIM Soldit 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 VOC (less than 2 g/l).

KEIM Soldalit Grob



A sol silicate-based filled priming coat containing sand (0-0.5mm grains) and mineral fiber fillers used to fill hairline cracks and crazing, opaque white, may be tinted. Dilute with KEIM Soldalit Dilution. Very low VOC (less than 2 g/l).

KEIM Contact Plus



A silicate-based primer/bridging coating containing sand (0-0.5mm grains) and mineral fiber fillers for bridging over existing synthetic resin-bound paint layers or as primer when cost or hazmat conditions prevent removal of existing paint layers. Used to fill hairline cracks up to 0.5mm or equalization and renovation of surfaces for a uniform appearance, opaque white. Very low VOC (less than 1 g/l).

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

ASTM E 96,

Test Methods for Water Vapor Transmission of Materials

Test Results

Permeance = 77 Perms. KEIM Soldalit is highly vapor permeable.

ASTM G 154,

Accelerated Weathering Test 2016 hours

Test Results

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

Test Results

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.

KEIM preparation and renovation products

KEIM Lime Remover



For use on new render (stucco) to remove sinter layers or for cleaning dirty areas of old render. KEIM Lime Remover is completely neutralized when correctly used. No VOC.

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 surface impurities on old concrete and mold release oils from new concrete. KEIM Concrete Cleaner is completely neutralized when correctly used. No VOC.

KEIM Universalputz Standard Render



A cementitious renovation and thin wall render made of hydraulic lime and white cement binder with quartz sand (0-1.3mm 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. No VOC.

KEIM Universalputz Fine Render



Same as Universalputz Standard except the quartz sand grains are between 0 to 0.6mm in size. Surface may be finished from sandy to smooth, closely resembling the appearance of white lime plaster. No VOC.

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/adobe. No VOC.

KEIM Silan 100



An alkylalkoxysilane-based, extremely water repellent primer coating with 100% active ingredients, applied as first coating against the substrate. No VOC.

KEIM I&F Grund



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

KEIM Sealer



Polyurethane-based, solvent free, indoor-outdoor UV resistant transparent sealer. Dries flat matte, one shade darker than underlying color. Uniquely 100% waterproof yet vapor permeable. Apply as wear layer on horizontal surfaces to prevent water intrusion. Due to slippery nature when wet, most soils wash away with rain. KEIM Sealer is an effective waterproof coating protection and soil barrier. Very low VOC (less than 9 g/l).

Need more information

Email us at:
keim-info@keim.com

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

Call us at:
866-906-5346 (In USA)
704-588-4811 (Outside USA)



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 to unpainted or onto most previously painted mixed mineral substrates including mineral renders, concrete, stone, brick, CMU block, and autoclaved aerated concrete (AAC).

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 94 00 Decorative Finishing
09 94 13 Textured Finishing

09 96 00 High-Performance Coatings
09 96 13 Abrasion-Resistant Coatings
09 96 33 High-Temperature-Resistant Coatings
09 96 35 Chemical-Resistant Coatings
09 96 43 Fire-Retardant Coatings
09 96 66 Aggregate Wall Coatings

09 97 00 Special Coatings
09 97 23 Concrete and Masonry Coatings
09 97 26 Cementitious Coatings
09 97 26.13 Interior Cementitious Coatings
09 97 26.23 Exterior Cementitious Coatings



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The Construction
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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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