**KEIM Soldalit Exterior Paint and Finishing System**

**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

**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.**

**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.**

**The unique chemistry of Soldalit permits coating over existing organic paints without a bonding bridge. Huge savings may be realized by coating over weathered, rain 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.**

**Traffic safety**
- KEIM Soldalit will not burn, smoke or produce poisonous gases. Soldalit is completely incombustible.

**Fire safety**
- KEIM Soldalit will not burn, smoke or produce poisonous gases. Soldalit is completely incombustible.

**Health and beauty**
- 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 18001:2001.

**Economical**
- 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 18001:2001.

**Recommended for previously painted and mixed mineral substrates. MasterFormat® Division 09 - Finishes**

(See Back Cover for suggested division listings)
KEIM Solidol

- optimizes the binding power of two elements, silica 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

KEIM Solidol coating products

- A sol silicate based filled priming coat
- A laticized primer bindign coating
- A silicate-based diluent, used to thin KEIM Solidol

KEIM façade system

- KEIM Solidol coating system
- KEIM Solidol coating system

KEIM preparation and renovation products

- KEIM Line Remover
- KEIM Line Remover
- KEIM Line Remover

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

- Standard Test Method for Individual Volatile Organic Compounds (VOCs)

www.keim.com

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

Call us at: 866-906-5346

(Outside USA) +1-704-588-4815 (Outside USA)

www.keim.com
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environmental responsibility

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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.

fire safety

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

www.keim.com

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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.

the original silicate coating since 1878

KEIM Soldalit

Exterior Paint and Finishing System

a new generation sol silicate finish

the original silicate coating since 1878

KEIM MINERAL COATINGS

of America, Inc.

New York, NY 10011
www.keim.com

Customer Service 1-866-906-5346

www.keim.com

Soldalit® is a registered trademark of KEIMFARBEN GmbH & Co. KG.

KEIM Soldalit

optimizes the binding power of two elements, silica and pollucite silicates.

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

KEIM façade system
KEIM Soldalit coating products

With the binding power of silica, Soldalit can be applied to existing organic paints or mineral surfaces. As an organic paint, weather/deteriorate the substrate becomes exposed through cracks and the paint layers. Soldalit will bond to any remaining sound organic particle and not 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 is water resistant yet highly vapor permeable, weathering, and wind-driven rain ASTM test results.

KEIM Feldspar

A sol silicate-based filled priming coat that provides bonding to the substrate. KEIM Feldspar is water-based, easy to apply, and requires no VOCs. After bonding, it is ready to receive Soldalit or any other KEIM sol silicate coating or as a base for KEIM Fiber Mesh as a crack bridging binder.

KEIM Lightfast Paints

KEIM Silan 100

A solvent-based, exterior use only. Solvent-based, exterior use only. KEIM Silan 100 is a phenolic resin silane designed to give a high bond to concrete and masonry substrates. KEIM Silan 100 provides excellent bond to the substrate, keeping the wall dry, helping to minimize the permeance rate of moisture from the environment.

KEIM Lightfast Sols

A silane/siloxane-based primer/sealer that may be used as a primer under a KEIM sol silicate coating or as a standalone treatment. KEIM Lightfast Sol is a highly UV resistant. Very low VOCs (< 10 g/l).

KEIM Lightfast Paints

KEIM White Primer

A water-based, exterior use only. Solvent-based, exterior use only. KEIM White Primer is a vinyl emulsion paint primer that provides a good bond to existing substrates. KEIM White Primer is recommended to provide a priming surface before applying a sol silicate-based finish coat.

KEIM Weatherfast Paints

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A phenolic resin silane primer/sealer that may be used as a primer under a KEIM sol silicate coating or as a standalone treatment. KEIM Silan 100 is a highly UV resistant. Very low VOCs (< 10 g/l).

KEIM Fiber Mesh

A glass fiber mesh for reinforcing the outer layer of the coating system. KEIM Fiber Mesh is compatible with other KEIM sol silicate-based coat systems and can be cut to fit the area desired. KEIM Fiber Mesh can be scored, sanded, and painted.

KEIM Concrete Cleaner

A combination remover and stain wash that removes efflorescence, surface dirt, and organic stains from concrete, KEIM Concrete Cleaner is completely neutralized when correctly used. No VOCs.

KEIM Universal-paints Standard Binder

A cementitious renovation and thin wall coating. KEIM Universal-paint is an all-weather binder that may be used as a primer under a KEIM sol silicate coating or as a standalone treatment. KEIM Silan 100 is a highly UV resistant (< 10 g/l).

KEIM Sealer

A water-based sealer that provides a barrier to water vapor, salt, and air. KEIM Sealer can be applied to existing concrete, masonry, or hard substrates. KEIM Sealer is a highly UV resistant. Very low VOCs (< 10 g/l).

KEIM White Primer

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**KEIM Soldalit**

- **optimizes the binding power of two elements, silica and potassium silicate.**
- **requires only simple prep for renovation.**
- **complements building physics - keeping surfaces dry.**
- **extremely long service life.**
- **excellent economic viability.**
- **sustainable and green.**

**Refraction**

- **lightfast color and naturally compatible**

**Standard colors and custom colors.**

**Chemistry**

- **KEIM's unique sol silicate**
- **KEIM's Inorganic mineral pigments**
- **KEIM's unique sol silicate**

**KEIM façade system**

**KEIM Soldalit coating products**

<table>
<thead>
<tr>
<th><strong>KEIM Soldalit</strong></th>
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<tbody>
<tr>
<td>A sol silicone-water exterior coating for outstanding performance in all climates. Excellent for overcoating organic paints or mixed mineral substrates, or any renovation of these substrates. It is currently used by the U.S. Department of Defense for water repellency. Water permeable, Solalit with KEIM Soldalit Dilution: No VOCs.</td>
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<th><strong>KEIM Soldalit Gris</strong></th>
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<td>A sol silicone-based primer coat for increasing permeability of bare substrates. Thin films used on bare substrate and drying, forming a Γ-shaped film at a distance from KEIM Soldalit Dilution: No VOCs.</td>
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<th><strong>KEIM Soldalit Contact Plus</strong></th>
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<td>A sol silicone-based primer/lubricating coating for increasing permeability of bare substrates. Thin films used on both permeable and impermeable bare substrates. Used in EU facade cracks up to 0.2mm or equalization and renovation of existing surfaces. Applied very thin: very low VOCs (&lt;1g/l).</td>
</tr>
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**Permeability, weathering, and wind-driven rain ASTM test results**

<table>
<thead>
<tr>
<th><strong>ASTM E 96, Test Methods for Water Vapor Transmission of Materials</strong></th>
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<tr>
<td><strong>Test Results</strong></td>
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<td>Permeance = 77 Perms. KEIM Soldalit is very low vapor-permeable.</td>
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<th><strong>ASTM G 154, Accelerated Weathering Test 2016 hours</strong></th>
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<td><strong>Test Results</strong></td>
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<tr>
<td>No apparent signs of deterioration including Cracking, Coating, Chipping, Fading, or Chalking. KEIM Soldalit shown for durability.</td>
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<th><strong>ASTM E 514, Wind-Driven Rain Test 4 hour test</strong></th>
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<td><strong>Test Results</strong></td>
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<td>The test wall coated with KEIM Soldalit allowed no water to leak through while an untreated wall allowed water to flow through at a rate of 850 gallons/hour. After 4 hours of simulated weathering, KEIM Soldalit permitted no water to penetrate the wall.</td>
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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. KEIM 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 EIFS. It is economical. The unique chemistry of Soldalit permits coating over existing organic paints without a bonding bridge. Huge savings may be realized by coating over weathering, mildew and fungal paints thus protecting them from further decay. Soldalit may be applied over mixed substrates without priming. The protection of Soldalit lasts for decades.

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