**Product Bulletin**

**Sto Powerflex® Silco**

80285 Sto Powerflex Silco Fine
80286 Sto Powerflex Silco Medium
80287 Sto Powerflex Silco Swirl
80288 Sto Powerflex Silco Freeform

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**Technical Data**

<table>
<thead>
<tr>
<th>REPORT</th>
<th>TEST METHOD</th>
<th>TEST CRITERIA</th>
<th>TEST RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerated Weathering</td>
<td>ASTM G-53</td>
<td>2000 hours</td>
<td>No deleterious effects</td>
</tr>
<tr>
<td>Freeze/Thaw Resistance</td>
<td>Lab Method</td>
<td>25 cycles</td>
<td>No deleterious effects</td>
</tr>
<tr>
<td>Flexibility</td>
<td>ASTM D-522</td>
<td>1/8&quot; mandrel bend @ -30 (-34°C)</td>
<td>Pass</td>
</tr>
<tr>
<td>Surface Burning</td>
<td>ASTM E-84</td>
<td>≤ 25 Flame Spread, ≤ 450 Smoke Developed</td>
<td>0, 5</td>
</tr>
<tr>
<td>Water Vapor Permeability (U. S. perms)</td>
<td>ASTM D-1653</td>
<td>28 days</td>
<td>12.5</td>
</tr>
<tr>
<td>Water Absorption (%)</td>
<td>24 hour immersion</td>
<td>N/A</td>
<td>6.4</td>
</tr>
<tr>
<td>Adhesion (psi)</td>
<td>ASTM D-4541</td>
<td>28 days</td>
<td>&gt;80 to unprimed stucco, 100 to primed stucco (StoPrime Hot), 100 to unprimed concrete</td>
</tr>
<tr>
<td>Mildew Resistance</td>
<td>ASTM G-21</td>
<td>21 days</td>
<td>No growth</td>
</tr>
<tr>
<td>VOC (g/L)</td>
<td>This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 50 g/L.</td>
<td></td>
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</tr>
</tbody>
</table>

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Results are based on lab tests on fully cured substrates. Results may vary with field conditions, method of test, and other variables that may exist.

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**Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Hydrophobic</td>
<td>Repels water; resists wind driven rain</td>
</tr>
<tr>
<td>2 Non-thermoplastic</td>
<td>Does not soften at high temperatures; maximum resistance to dirt and airborne pollutants</td>
</tr>
<tr>
<td>3 Elastomeric</td>
<td>Bridges hairline cracks</td>
</tr>
<tr>
<td>4 Vapor Permeable</td>
<td>Allows substrate to breathe naturally; resists blisters caused by trapped water vapor</td>
</tr>
<tr>
<td>5 Ready-mixed</td>
<td>Ready to use; no additive needed</td>
</tr>
<tr>
<td>6 Water-Based</td>
<td>Safe, non-toxic; cleans up with water</td>
</tr>
</tbody>
</table>

**Surface Preparation**

Concrete, masonry and stucco: Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

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Sto Powerflex Silco is a ready-mixed, silicone-enhanced elastomeric textured wall coating. Sto Powerflex Silco is used as a decorative and protective wall finish for exterior applications over prepared vertical concrete, masonry and Portland cement plaster/stucco surfaces.

**Coverage per pail**

Sto Powerflex Silco Fine: 148-158 ft² (13.8-14.1 m²)
Sto Powerflex Silco Medium: 111-120 ft² (10.3-11.2 m²)
Sto Powerflex Silco Swirl: 120-130 ft² (11.2-12.1 m²)
Sto Powerflex Silco Freeform: 92-160 ft² (8.5-14.9 m²)

Coverages may vary depending on application technique and surface conditions.

**Packaging**

5 gal. pail (19 L).

**Shelf Life**

18 months, if properly stored and sealed.

**Storage**

Protect from extreme heat [90°F (32°C)], freezing, and direct sunlight.
Sto Powerflex® Silco

Surface Preparation (cont.)

Applying is recommended for best results - color uniformly, maximum finish coverage, and neutralizing high pH (highly alkaline) surfaces such as Portland cement stucco (including StoPowerwall® Stucco), StoQuik® Silver Cement Board Stucco, and prepared concrete and masonry surfaces.

Mixing

Mix with a clean, rust-free electric drill and paddle. A small amount of clean water may be added to aid workability. Limit addition of water to amount needed to achieve the finish texture.

Application

Apply only to sound, clean, dry, properly prepared, frost-free surfaces.

Trowel: Apply Sto Powerflex Silco with a clean stainless steel trowel to a rough thickness slightly more than the largest aggregate size. Use the trowel to scrape the material down to a uniform thickness no greater than the largest aggregate size. Achieve final texture by floating with the appropriate trowel in a figure eight motion with a plastic float. For Sto Powerflex Silco Freeform, application thickness varies depending on the pattern or texture desired. Apply to a minimum 1/16" (1.6 mm), maximum 3/16 inch (4.8 mm) thickness. Texturing may be achieved by trowel, special roller or putty knife. Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

Spray: Apply Sto Powerflex Silco with a hand-held gravity-feed hopper type sprayer, texture spray pump machine, or other appropriate equipment such as the StoSil system or Sto’s M-8 spray pump. Apply an even coat to ensure full coverage of the surface. (Spray application is not recommended for Sto Powerflex Silco Swirl).

Limitations

- Use Sto Powerflex Silco only when surface and ambient temperatures are above 40°F (4°C) during application and drying period.
- Sto Powerflex is not recommended over interior wall surfaces.
- Sto Powerflex should not be used on horizontal, below grade or water immersed surfaces.

Health And Safety

WARNING:

Causes eye and skin irritation. Precautionary Statement

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Store locked up.

Spills: Collect with suitable absorbent material such as cotton rags.

Disposal: Dispose of in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) on www.stocorp.com for further health and safety information.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

Refer to Sto Specifications for more complete information on proper use and handling of this product.