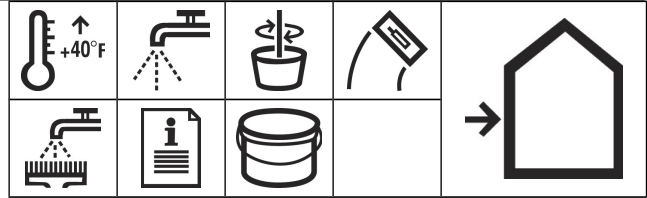


Product Bulletin

Sto Powerflex® Silco

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



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Accelerated Weathering	ASTM G-53	2000 hours	No deleterious effects
Freeze/Thaw Resistance	Lab Method	25 cycles	No deleterious effects
Flexibility	ASTM D-522	1/8 " mandrel bend @ -30 (-34°C)	Pass
Surface Burning	ASTM E-84	≤ 25 Flame Spread ≤ 450 Smoke Developed	0 5
Water Vapor Permeability (U. S. perms)	ASTM D-1653	28 days	12.5
Water Absorption (%)	24 hour immersion	N/A	6.4
Adhesion (psi)	ASTM D-4541	28 days	>80 to unprimed stucco 100 to primed stucco (StoPrime Hot) 100 to un-primed concrete
Mildew Resistance	ASTM G-21	21 days	No growth
VOC (g/L)	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.		

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.

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

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.

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.)

Priming:

Priming is recommended for best results - color uniformity, 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.

Apply primer by brush, roller, or with proper spray equipment and allow to dry before application of finish. Where pH is high (up to pH of 13), and to reduce time to application of finish, use StoPrime Hot. Refer to product bulletins for detailed information on Sto primers.

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 StoSilo 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*).

IMPORTANT: ALWAYS check color for proper match. If color does not match, STOP-call your Sto representative. For best results always prime cementitious substrates. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Minor shade variations may occur from batch to batch (refer to batch no. on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new finish adjacent to weathered or aged finish. Sto Corp. will not be responsible for shade or color variation from batch to batch, variation caused by application or substrate deficiencies, or fading resulting from natural causes such as weather. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Curing/Drying

Sto Powerflex Silco dries within 24 hours under normal conditions [70°F (21°C), 50% RH]. Drying time varies with temperature/humidity and surface conditions.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

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 give 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.

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80287, 80288**
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Attention

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, www.stocorp.com.