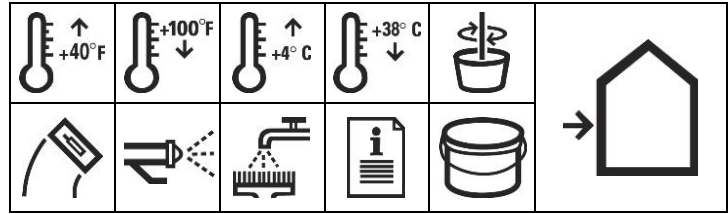


Stolit® Lotusan®

80190 Stolit Lotusan 1.0
 80191 Stolit Lotusan 1.5
 80193 Stolit Lotusan Freeform
 82190 Stolit Lotusan 1.0 Dark Colors
 82191 Stolit Lotusan 1.5 Dark Colors
 82193 Stolit Lotusan Freeform Dark Colors



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Freeze Thaw Resistance	ASTM E2485	10 cycles	No cracking, crazing, or checking under 5X magnification
Salt Spray Resistance	ASTM B117	300 hours	No deleterious effects at 300 hours
Surface Burning	ASTM E84	< 25 Flame Spread < 450 Smoke Developed	0 10
Tensile Adhesion Strength	ASTM C297	Greater than 15 psi (0.1 MPa)	Average 32 psi (0.22 MPa)
Resistance to mold	ASTM D3273	No growth at 28 days	No growth at 270 days
Accelerated Weathering	ASTM G154 and G153	2000 hours	No deleterious effects at 2000 hours
Water Vapor Permeance	ASTM E96 Method B (wet cup)	Measure	26.1 perms (1490 ng/Pa•s•m ²)
Water Resistance	ASTM D2247	14 days	No deleterious effects at 14 days
VOC (g/L)	This product complies with US EPA (40 CFR 59) VOC emission standards for architectural coatings. VOC less than 50 g/L.		

A ready mixed, textured wall finish with Lotus-Effect® technology that mimics the self cleaning capabilities of the lotus leaf. Stolit Lotusan with Lotus-Effect® technology is designed for use as a finish coating over prepared vertical above-grade concrete, masonry or plaster substrates and in StoTherm® ci Lotusan.

Coverage
 80190/82190 Stolit Lotusan 1.0: 140-165 ft² per pail (13-15.3 m²).
 80191/82191 Stolit Lotusan 1.5: 120-145 ft² per pail (11.1-13.5 m²).
 80193/82193 Stolit Lotusan Freeform: 40-130 ft² per pail (3.7 m²-12.1 m²).

Coverages may vary depending on application technique and surface conditions.

Features Benefits

1 Super-Hydrophobic	<ul style="list-style-type: none"> Extremely water repellent Outstanding resistance to soiling Improved resistance to mold, mildew and algae
2 Vapor Permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
3 Ready-Mixed	Ready to use; no additive needed
4 Integral Color	Lasting uniform color
5 Water-Based	Safe, non-toxic, cleans up with water
6 VOC Compliant	Meets South Coast Air Quality Management District Requirements

Packaging
 5 gallon pail (19 L).

Shelf Life
 12 months, if properly stored and sealed.

Storage
 Protect from extreme heat [90°F (32°C)], freezing and direct sunlight.

Surface Preparation

Concrete and masonry surfaces: Surfaces must be clean, dry, and free of frost, damage, and 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.

StoTherm® ci Systems: Surface must be free of all bond-inhibiting materials.

Autoclaved Aerated Concrete (AAC): Base coat must be fully dry and smooth. Base coat surface must be free of all bond-inhibiting materials.

IMPORTANT: Sto recommends priming cementitious substrates using the appropriate Sto primer prior to application of finish. For Stolit Lotusan Dark Color Finishes surface must be primed with the appropriate primer, tinted to the same color as the finish coating.

Stolit® Lotusan®

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 and clean, dry, properly prepared, frost-free surfaces.

Stolit Lotusan Freeform: Apply with a clean, stainless steel trowel. Application thickness varies depending on the pattern or texture desired, (maximum thickness not more than 3/16" [4.8 mm]). Texturing may be achieved by trowel, special roller or putty knife. Maintain uniform texture and minimum 1/16" (1.6 mm) thickness to help promote consistent color.

All other Stolit Lotusan: Apply 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 trowel in a figure eight motion. Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

Spray: Apply Stolit Lotusan 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. **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.

Lotus-Effec® Technology

The super hydrophobic properties of Lotus-Effec® technology are not immediate and require approximately 30-60 days of weathering to develop after finish is applied. These properties develop with aging and environmental conditions.

Curing/Drying

Stolit Lotusan 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.

Health And Safety

Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

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.

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) at 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.

Limitations

- Protect installed materials from rain, freezing, & continuous high humidity until completely dry.
- Use Stolit Lotusan only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- Use Stolit Lotusan Dark Color Finishes only when surface and ambient temperatures are above 50°F (10°C) and below 100°F (38°C) during application and drying period.
- For Exterior Insulation and Finish Systems (EIFS), select colors with a lightness value of 20 or greater.
- Custom finish or system samples will not show the hydrophobic properties until weathered.
- Sloped surfaces: Refer to Sto details
- Stolit Lotusan should not be used on weather-exposed horizontal, below grade or water immersed surfaces.
- Stolit Lotusan is not stain proof. Stains from repeated deposits of dirt, grime, chemicals, or from architectural features without adequate drip edges to deflect water and contamination away from the wall, can sometimes result in irremovable stains. Clay, grime and other dirt at grade level may not fully clean from the surface.
- Maximum power wash pressure is 500 psi (3.43 MPa). Consult a Sto Corp. representative if higher pressures are required.
- Do not use detergents when cleaning / power washing Stolit Lotusan. Please consult a Sto Corp. representative if pressure washing with water is not sufficient for cleaning Stolit Lotusan.

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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.