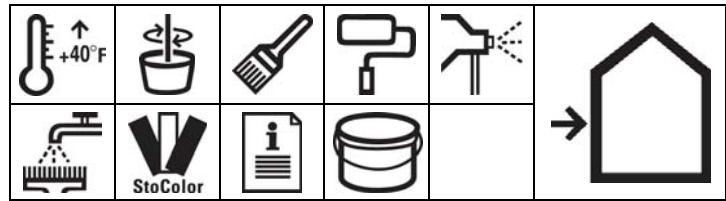


StoCoat[®] Lotusan[®]

The exterior coating with Lotus-Effect[®]

80216 StoCoat Lotusan



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
Accelerated Weathering	ASTM G-155	2,000 hours	No Deleterious Effects
Resistance to Wind Driven Rain	ASTM D-6904 (formerly Fed Spec TTC-555B)	Weight Gain 1 coat with primer 2 coats without primer	No water penetration <0.3 oz (<0.02 lbs) <1.4 oz (<0.09 lbs)
Tensile Strength psi (MPa)	ASTM D-412		182 (1.25)
Mold Resistance	ASTM D-3273	28 day exposure	No Mold Growth
Adhesion to Concrete psi (MPa)	ASTM D-4541		550 (3.79)
Water Vapor Permeability Perms (ng/Pa·s·m ²)	ASTM E-96 Wet-cup method	2 coats	40 (2280)
VOC (g/L)	This product complies with US EPA (40 CFR 59) VOC emission standards for architectural coatings. VOC less than 100 g/L.		
Percent Solids, by volume*			52

StoCoat Lotusan is a smooth, vertical, above grade exterior wall coating with Lotus-Effect for concrete, stucco, masonry, EIFS and primed or pre-painted wood surfaces. **BIONICS[®]** technology mimics the self cleaning capabilities of the lotus leaf.

Coverage

200-270 ft² per gallon (4.9-6.5 m² per liter) per coat, applied at 5-7 mils (0.13 to 0.18 mm), wet.

940-1270 ft² (85-115 m²) per pail for a single coat, applied at 5-7 mils (0.13 to 0.18 mm) per coat, wet.

470-635 ft² (44-58 m²) per pail for two coats, applied at 5-7 mils (0.13 to 0.18 mm) per coat, wet.

Typical values for material cured at 73°F (23°C) and 50% R.H.

* Percent Solids by volume is approximated from change in thickness from wet application to measured dry film.

Coverage 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 UV Resistant	Excellent color retention
4 Water-based	Safe, non-toxic; cleans up with water
5 Low VOC	Safe for workers and the environment

Packaging

5 gallon pail (19 L).

Color

Available in virtually any color including custom color matches.

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, 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. Fill surface voids. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

StoTherm[®] (EIFS) Systems:

Surface must be clean, sound, and free of all bond-inhibiting materials, including dirt and efflorescence.

Mixing

Mix with a clean, rust-free electric drill and paddle. For spray applications up to 5% dilution with water (40 ounces [1.2 L]) is permissible. The amount of water to add is proportional to the amount of colorant - darker colors use less water, lighter colors use more water. Add water

in increments to increase flow and facilitate spraying. **DO NOT EXCEED MAXIMUM ALLOWABLE WATER ADDITION.** Call Sto Technical Services (800 221-2397) for questions.

StoCoat® Lotusan®

Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces. Apply StoCoat Lotusan with brush, roller, or proper spray equipment. For best results apply in a thin uniform film and avoid excess build-up of material.

Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

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.

EIFS: select colors with a lightness value of 20 or greater.

Concrete and Stucco substrates:

Apply Sto Hot Prime® in one coat by brush, roller, or spray to a thickness of 5 wet mils.

Concrete Masonry substrates:

Apply Sto Primer Smooth in one coat by brush, roller, or spray to a thickness of 6-8 wet mils.

Allow primer to dry completely before applying finish coating. Select one of the options below, depending on type construction, weather exposure and required level of performance:

Decorative and Protective finish coating (one coat application): Apply one coat, 5-7 wet mils, StoCoat

Lotusan to primed surface.

Weatherproofing (two coat application):

Apply one coat, 5-7 wet mils, StoCoat Lotusan to primed surface. Allow first coat to dry, and apply a second coat, 5-7 wet mils.

Existing Acrylic and Acrylic Elastomeric Coatings:

Existing coating must be clean, structurally sound, and fully adhered. Acrylic elastomeric coatings must be weathered to an essentially non-elastomeric condition.

Wood Substrates:

Wood must be clean, sound, free of moisture damage, and primed or pre-painted with a compatible material. Primers or paints that are compatible with acrylic or acrylic latex paints will generally be compatible with StoCoat Lotusan. Always test adhesion to be sure of desired results.

Spray Application:

When spray applying StoCoat Lotusan we recommend using a Graco 1095 or equivalent with a 19 to 21 mil tip size. Initial pressure should be 1900 to 2100 psi. Adjust pressure to optimize application for field conditions. See Mixing instructions for water addition.

Curing/Drying

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

Lotus-Effect®

Lotus-Effect is not immediate and requires up to 30 days of weathering after it is applied to develop. Lotus-Effect develops with aging and environmental conditions. Some highly textured surfaces may not show the complete Lotus-Effect.

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.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY

PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

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 Material Safety Data Sheet for further health and safety information.

Material Safety Data Sheet (MSDS) is available at www.stocorp.com

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, and continuous high humidity until completely dry.
- Apply when ambient and surface temperatures are 40°F (4°C) and rising.
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not apply in freezing conditions or during precipitation.
- Do not use below grade, on horizontal surfaces, or in areas of ponding water.
- Dark colors and colors requiring organic pigments may not be available.
- Do not overcoat with solvent-based materials.
- Custom color samples will not show the Lotus-Effect until weathered.
- 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 StoCoat Lotusan coating. Please consult a Sto Corp. representative if pressure washing with water is not sufficient for cleaning StoCoat Lotusan.
- Dark colors formulated with Lotusan Base 1 have a reduced Lotus-Effect.

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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.