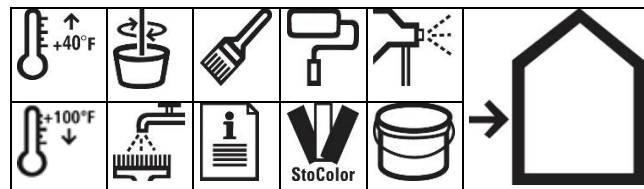


PRODUCT BULLETIN

StoColor® Lotusan®

Product Number: 80217



PRODUCT DESCRIPTION

StoColor Lotusan is a high performance decorative and protective wall coating with *Lotus-Effect*® technology. Use it for protecting prepared vertical, above grade, concrete, concrete masonry, EIFS, and stucco wall surfaces. *Lotus-Effect* technology mimics the self-cleaning capabilities of the lotus leaf and keeps facades clean longer than conventional paints and coatings.

FEATURES	BENEFITS
Super-hydrophobic	- Extremely water repellent - Outstanding resistance to soiling - Improved resistance to mold, mildew and algae
Vapor Permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
UV Resistant	Excellent color retention
Cleans up with Water	Tools can be reused; no hazardous solvents needed; environmentally friendly
Low VOC	Safe for workers and the environment

COVERAGE (per pail)

740 1200 ft² (69-111 m²) per pail per coat

Coverage will vary depending on substrate condition and texture, application technique, waste factor, final film thickness, and other variables that may exist.

Packaging: 5 gallon pail (19L)**Color:** 800 Standard Colors or Custom Color Match**Sheen:** Flat**Shelf Life:** 12 months, if properly stored and sealed.

Storage: Store in a dry area, between 50°F (10°C) and 85°F (29°C). Protect from direct sunlight, extreme heat [90°F (32°C)] and freezing.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, or any other condition that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist. If pressure washing, follow necessary safety precautions and adjust pressure to avoid damage to the underlying substrate. For mold, algae, and mildew removal, treat surfaces with a commercial mildew removal and/or wash product, carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water and allow a minimum of 24 hours to dry thoroughly before application of coating.

MIXING

Use at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Mix undiluted product for 3 minutes using a slow-speed drill and a mixing paddle. Mix thoroughly to a uniform consistency. DO NOT THIN OR DILUTE.

HEALTH & 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.

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APPLICATION

Apply only to sound and clean, dry, properly prepared, frost-free surfaces. Do not apply over damp surfaces or during rain, hail, or snow events or if rain, hail, or snow is imminent. Apply in two uniform coats by brush, roller or with proper spray equipment to prepared/primed substrate at 5-7 WFT to achieve 2.4-3.4 DFT per coat. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Back roll open texture surfaces such as concrete masonry. Allow sufficient time for drying between coats.

Substrate	Min. Age	Primer	WFT(DFT)
Concrete	7d	StoPrime Hot	5 (2.1)
Stucco	7d	StoPrime Hot	5 (2.1)
CMU	28d	StoPrime Block Surfacers HP	14-16 (7.3-8.3)
EIFS	N/A	StoPrime Sand	4-6 (1.6-2.3)
Painted Surface Primer	N/A	Depends on paint & its condition. Test to determine best primer	

Note: Selection of proper primer can vary depending actual substrate conditions such as pH, absorption, texture, and desired aesthetic look. In some cases, a primer may not be necessary. Evaluate surface condition and adhesion to surface.

IMPORTANT

ALWAYS check color for proper match. If color does not match, STOP-call your Sto representative. Minor shade variations may occur from batch-to-batch (refer to batch number on pail). Avoid installing separate batches side-by-side and avoid application in direct sunlight. See Tech Hotline Nos. 0694-C, 0893-EC and 1202-CF for helpful tips on prevention of color problems. Prepare a job site mock-up of the final coating assembly to verify aesthetics and adhesion to properly prepared/primed surfaces as specified by design professional or owner's quality assurance agent.

Curing/Drying

Product dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Drying time varies with temperature/humidity and surface conditions. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

Lotus-Effect® Technology: the super hydrophobic properties of Lotus-Effect Technology are not immediate and require up to 30 days of weathering after it is applied to develop. These properties develop with aging and environmental conditions. Some highly textured surfaces may have reduced hydrophobic properties.

Clean Up

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

Maintenance

Repair cracks or other damage to façade and recoat at intervals as needed to maintain fresh appearance. Repair balconies, scuppers, flashing and similar water shedding elements that lack drip edges or that fail to shed water from the façade surface. Prevent or repair leaks from roofs, parapets, windows, sealants, or other components of construction, and prevent accumulation of water inside the wall assembly during and after construction. Water accumulation behind the coating can cause damage to the coating and/or underlying construction. Refer to Tech Hotline at www.stocorp.com for cleaning and maintenance of StoColor Lotusan.

LIMITATIONS

- Apply when ambient and surface temperatures are 40°F (4°C) and rising, and below 100°F (38°C).
- Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not use below grade, on horizontal surfaces or in areas subjected to hydrostatic pressure, water immersion, ponding, or puddling.
- Contaminated water runoff may cause staining. Use drip edges at parapet coping, sill flashing, balcony edges, and similar exposures to shed water runoff from the wall surface.
- Do not overcoat with solvent-based materials.
- Efflorescence of Portland cement-based substrates such as concrete, stucco, and concrete masonry sometimes causes staining or discoloration on the surface of applied coatings. Efflorescence is neither caused nor prevented by the Sto coating.
- Not for interior use
- Not for use on wood or metal surfaces
- Some dark colors or colors requiring organic pigment may not be available

LIMITED WARRANTY

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

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TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Salt Spray	ASTM B117	300 hours	No deleterious effects at 1000 hours
Alkali Resistance	ASTM D1308	4 hours exposure	No lifting, wrinkling, disintegration, or color change
Mold Resistance	ASTM D3273	28-day exposure	Pass, Rating=10, No growth at 90 days
Efflorescence Blocking	ASTM D7072	48 hours in humidity cabinet at 100°F (39°C)	No efflorescence observed
Adhesion to Concrete psi (MPa)	ASTM D7234	> 50 (0.344)	265 (1.83)
Resistance to Wind Driven Rain	ASTM D6904	No visible water leaks after 24-hour water spray with 98 mph (158 km/h) equivalent wind speed	No visible water leaks: • 1 coat StoColor Lotusan + 1 coat StoPrime® Hot (0.03 lbs weight gain) • 1coat StoColor Lotusan + 1 coat StoPrime® Block Surfacer HP (0.07 lbs weight gain) • 2 coats StoColor Lotusan (0.08 lbs weight gain)
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Developed: ≤ 450	FS: 0 SD: 0
Water Vapor Permeability Perms (ng/Pa·s·m²)	ASTM E96 Wet-cup method	Unprimed	1 coat: 39 (2231)
Freeze Thaw Resistance	ASTM E2485	60 cycles	Pass, no deleterious effects at 90 cycles when viewed under 5X magnification
Accelerated Weathering	ASTM G154	2000 hours	Pass, no deleterious effects at 5000 hours
% Solids by Volume	Calculation	N/A	47%
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 testing under controlled conditions. Results can vary between labs or from field tests.

Sto Corp.

3800 Camp Creek Parkway
Building 1400, Suite 120
Atlanta, GA 30331
Tel: 404-346-3666
Toll Free: 1-800-221-2397
Fax: 404 346-3119
www.stocorp.com

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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