



Northern Tan



Portland Blue

Technical Data

TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E-84	< 25 Flame S pread	0
		< 450 Smoke Developed	5
Flexibility	ASTM D-522	4" mandrel bend	Pass
Accelerated Weathering	ASTM G-53	2000 hours	No deleterious effects @ 4000 hrs
Chalk Rating	ASTM D-4214	2000 hours	9 (10 = best on scale 1-10)
		5000 hours	8
Yellowness Index	ASTM E-313	5000 hours	1.50 (0 = no change; 2 = barely discernable change)
Freeze-thaw Resistance	EIMA 101.01	60 cycles	No deleterious effects @ 90 cycles
Mildew Resistance	ASTM D-3273	No growth @ 28 days	No growth @ 42 days
Salt Spray Resistance	ASTM B-117	300 hours	No deleterious effects @ 500 hrs
Wind Driven Rain	Fed TT-C-555B	24 hour driving rain	No water penetration
Water resistance	ASTM D-2247	14 days	No deleterious effects @ 28 days
Abrasion resistance	ASTM D-968	528 qts. sand	No cracking, checking or loss of film integrity @ 1057 qts.
Tensile Adhesion (psi)	EIMA 101.03	No failure in the EIFS adhesive, basecoat or finish; minimum 5 psi	Pass
Adhesion (psi)	ASTM D-4541	28 days	> 90 to concrete
Fire Resistance	ASTM E-119	No effect on fire resistance rating of existing rated wall assembly	Pass

Sto Limestone

Division 7

Sto Limestone provides the classic beauty of stone in a lightweight and easily installed premium architectural wall finish. It features the look and feel of natural stone at a fraction of the expense.

A variety of natural stone colors and 100% acrylic polymer formulation makes Sto Limestone an excellent choice whether the application is new construction or renovation, and over prepared concrete, masonry and plaster substrates and in Sto Cladding Systems, including Sto Classic and Sto Classic NExT™.

It can also be created using elastomeric finishes for application over Portland Cement Plaster.

When designed as part of a Sto System, a wide variety of costly stone elements like quoins, arches and reliefs can be readily fashioned from lightweight material and finished with Sto Limestone to enhance the beauty of the building design at reduced weight and cost.

Features & Benefits

Limestone Look

The classic beauty of natural stone in a durable acrylic-based finish

Lightweight

The look and feel of natural stone at a fraction of the weight for cost savings on materials, application and structural requirements

Integral color

Lasting uniform color

Moisture resistant

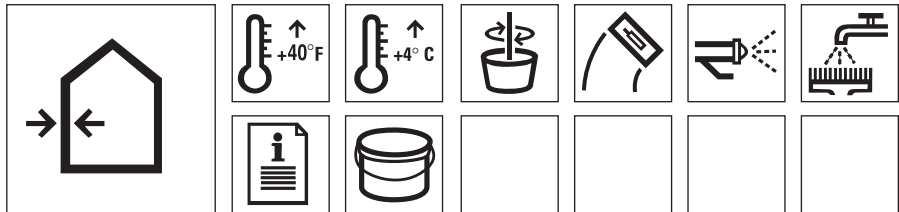
Repels water; resists wind driven rain

Water-based

Safe, non-toxic; cleans up with water

Sto Limestone

Sto Limestone is a custom texture finish that provides the look of natural limestone in an acrylic based finish. Sto Limestone's texture is achieved by combining two Sto 100% acrylic polymer finishes, Stolit® 1.0 and Stolit® Freeform. For an elastomeric version, use Sto Powerflex Fine and Sto Powerflex Freeform.



130 Stolit 1.0 OR 280 Powerflex Fine
156 Stolit Freeform 283 Powerflex Freeform

Coverage

Stolit 1.0: 140-165 ft² per pail (13-15.3 m²)
Stolit Freeform: 350-400 ft² per pail (32-37m²)
Sto Powerflex Fine: 148-158 ft² per pail (13.8-14.1 m²)
Sto Powerflex Freeform: 92-160 ft² per pail (8.5-14.9 m²)

Coverages may vary depending on application technique and surface conditions.

Packaging

5 gal. pail (19L)

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 free of all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by waterblasting, 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 Exterior Insulation and Finish Systems (EIFS): Surface must be free of all bond-inhibiting materials.

Gypsum wallboard surfaces: Wallboard must be taped and fasteners spotted with joint compound. Refer to ASTM C-840 and gypsum wallboard manufacturer's literature. Surface must be free of dust, dirt and other bond-inhibiting materials. Surface must be primed with appropriate Sto Primer.

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.

Color

For best results finishes should be tinted as closely as possible to the same color.

See Sto Limestone Sales Sheet for popular colors.

Application

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

Method to achieve Sto Limestone Finish Texture:

Step One*: Apply Stolit 1.0 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. Float the finish to a uniform fine pebbled texture using a plastic float or a stainless steel trowel in a figure eight motion. Allow to dry completely – Stolit dries within 24 hours under normal (70°F (21°C), 50%RH) conditions.

Step Two:** Apply Stolit Freeform with a clean stainless steel trowel. Scrape down to an even and extremely tight application. Immediately float finish using a plastic trowel in a random figure 8 motion.

* For elastomeric version, substitute Sto Powerflex Fine in place of Stolit 1.0.

**For elastomeric version, substitute Sto Powerflex Freeform in place of Stolit Freeform.

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

Dries within 24 hours under normal [70° F (21° C), 50% RH] conditions. 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 Limestone only when surface and ambient temperatures are above 40° F (4° C) during application and drying period. Dark colored finishes are not recommended for use over Exterior Insulation and Finish Systems (EIFS). Select finish colors with a lightness value of 20 or greater when used as part of an EIF System. Sto Limestone should not be used on weather-exposed horizontal, below grade or water immersed surfaces.

Sloped surfaces: minimum required slope is 1:2 (27°) and maximum width is 12" (300 mm). Sto Mesh embedded in Sto Flexyl is required beneath finish coating. Increase slope for northern climates to prevent accumulation of ice/snow and water on

surface. Periodic inspection and increased maintenance of coating may be required.

Application of Sto Limestone below grade is not recommended.

Health & 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 in accordance with local, state or federal regulations.

Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE.
KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Material Safety Data Sheet 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., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331; Tel: 404-346-3666; Fax: 404-346-3119.

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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POLYMERS

