

# Sto Essence DPR Finishes



**307** Sto Swirl Finish

**306** Sto Medium Sand Finish

**310** Sto Fine Sand Finish

Division 7

*Sto Essence DPR Finishes are ready-mixed, acrylic-based exterior or interior textured finishes used as a decorative and protective wall coatings over prepared masonry and plaster substrates and in Sto's Essence Claddings, including Sto Essence NExT™.*

## Technical Data

TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 5
Flexibility	ASTM D-522	4" mandrel bend	Pass
Water Vapor Transmission (U. S. perms)	ASTM E-96 Method B	28 days	34
Accelerated Weathering	ASTM G-53	2000 hours	No deleterious effects @ 3000 hrs
Chalk Rating	ASTM D-4214	5000 hours	8 (10 = best on scale 1-10)
Yellowness Index	ASTM E-313	5000 hours	0.58 (0 = no change; 2 = barely discernable change)
Freeze-thaw Resistance	EIMA 101.01	60 cycles	No deleterious effects @ 60 cycles
Mildew Resistance	ASTM D-3273	No growth @ 28 days	No growth @ 28 days
Salt Spray Resistance	ASTM B-117	300 hours	No deleterious effects @ 300 hours
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 qt. sand	No cracking, checking or loss of film integrity @ 528 qts.
Tensile Adhesion (psi)	EIMA 101.03	No failure in the EIFS adhesive, base coat or finish. Minimum 5 psi.	Pass
Adhesion	ASTM C-297	28 days	> 80 to concrete
Fire Resistance	ASTM E-119	No effect on fire resistance rating of existing rated assembly	Pass

## Features & Benefits

### Vapor permeable

Allows substrate to breathe naturally, resists blisters caused by trapped water vapor

### Moisture resistant

Repels water; resists wind driven rain

### Water-based

Safe, non-toxic; cleans up with water

### DIY pick-up resistant

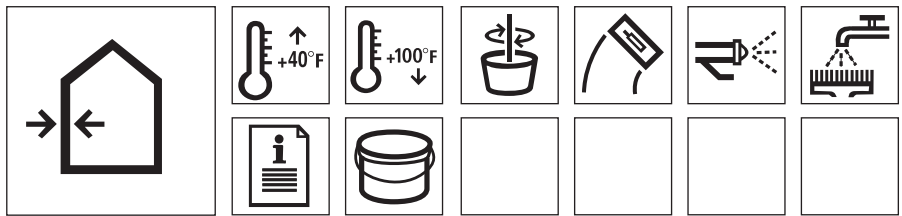
Resists mildew and algae growth; low maintenance

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## Coverage

Sto Swirl Finish: 120-140 ft<sup>2</sup>

(11.1-13.0 m<sup>2</sup>) per pail

Sto Medium Sand Finish: 110-130 ft<sup>2</sup>

(10.2-12.1 m<sup>2</sup>) per pail

Sto Fine Sand Finish: 140-160 ft<sup>2</sup>

(13.0-14.9 m<sup>2</sup>) per pail

Coverages may vary depending on application technique and surface conditions.

## Packaging

5 gal. 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 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 to a uniform consistency. 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.

**Trowel:** Apply Sto Essence Finishes 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; stainless steel trowel for Sto Medium Sand and Sto Fine Sand (pebbled texture finish) and plastic float for Sto Swirl Finish (rilled texture). Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions.

**Spray:** Apply Sto Essence Finishes 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 Swirl Finish.)

**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 Essence Finishes dry 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 Essence Finishes only when surface and ambient temperatures are above 40° F (4° C) and below 100° F (38° C) during application and drying period. For Exterior Insulation and Finish Systems (EIFS), select finish colors with a lightness value of 20 or greater. Sto Essence Finishes 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). 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.

## 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.

Refer to Sto specifications and details for more complete information and proper use and handling of this product.

### Sto Corp.

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