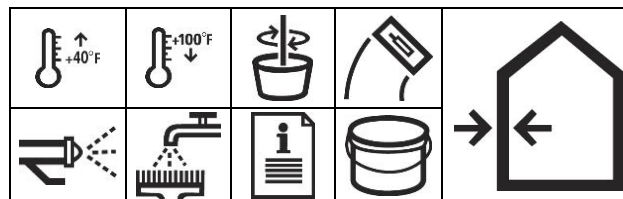


Sto Essence DPR Finishes

80306 Sto Medium Sand Finish
 80307 Sto Swirl Finish
 80310 Sto Fine Sand Finish



Technical Data

A ready-mixed, acrylic-based exterior or interior textured coating used as a decorative and protective wall finish over prepared concrete, masonry and plaster substrates and in StoTherm® ci Essence.

REPORT	TEST METHOD	TEST CRITERIA	TEST 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-154	2000 hours	No deleterious effects @ 5000 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	ASTM 2485	60 cycles	No deleterious effects @ 90 cycles
Mildew Resistance	ASTM D-3273	No growth @ 28 days	No growth @ 60 days
Salt Spray Resistance	ASTM B-117	300 hours	No deleterious effects @ 1000 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 @ 42 days
Abrasion Resistance	ASTM D-968	528 qts. sand	No cracking, checking or loss of film integrity @ 528 qts.
Tensile Adhesion (psi)	EIMA 101.03	No failure in the EIFS adhesive, basecoat 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
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.		

Coverage
 Sto Medium Sand Finish: 110-130 ft² (10.2-12.1 m²) per pail.
 Sto Swirl Finish: 120-140 ft² (11.1-13.0 m²) per pail.
 Sto Fine Sand Finish: 140-160 ft² (13.0-14.9 m²) per pail.
 Coverages may vary depending on application technique and surface conditions.

Packaging
 5 gallon pail (19 L).

Shelf Life
 18 months, if properly stored and sealed.

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

Features Benefits

1 Vapor Permeable	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
2 Moisture Resistant	Repels water; resists wind driven rain
3 Water-based	Safe, non-toxic; cleans up with water
4 Dirt pick-up resistant	Resists mildew and algae growth; low maintenance
5 Low VOC	Meets South Coast Air Quality Management District Requirements

Sto Essence DPR Finishes

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® 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.

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

Sto recommends priming cementitious substrates using the appropriate Sto primer prior to application of finish.

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 handheld 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 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 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.

Refer to Sto Specifications for more complete information on proper use and handling of this product.

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.
- Sloped surfaces: Refer to Sto details.
- Sto Essence Finishes should not be used on weather-exposed horizontal, below grade or water immersed surfaces.
- For Exterior Insulation and Finish Systems (EIFS), select finish colors with a lightness value of 20 or greater.

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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.