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**Sto Guide Specification No. F300 EPD
Sto Finish System for Concrete, Concrete Masonry, and Portland Cement Plaster**

**Section 09 25 13.13
ACRYLIC PLASTER FINISH**

Notes in italics, such as this one, are explanatory and intended to guide the design/construction professional and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions.

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PART 1 GENERAL

1.1 SUMMARY

- A. Provide textured finish system for vertical above grade exterior concrete, concrete masonry, and portland cement plaster wall surfaces.

IMPORTANT: This guide specification covers installation of a Class A textured finish system over building code compliant wall construction. It does not address air sealing, construction detailing, flashing and other important aspects of design and construction that must be taken into consideration to prevent water infiltration, to prevent condensation caused by air leakage or water vapor diffusion, and to comply with applicable fire safety requirements. Consult with a qualified design professional for overall design of the wall assembly.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. Include manufacturer's Material Safety Data Sheets.

1.3 REFERENCES

- A. ASTM Standards
 - C 926 Standard Specification for Application of Portland Cement-Based Plaster
 - C 1063 Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster
- B. South Coast Air Quality Management District (SCAQMD)
 - Rule 1113 Architectural Coatings

1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The textured finish system manufacturer shall be a company with at least thirty five years of experience in manufacturing specialty finishes and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have an ISO 9001:2008 certified quality system and ISO 14001:2004 certified environmental management system.
- B. Installer's Qualifications: The contractor shall be qualified to perform the work specified by reason of experience. Contractor shall have at least 5 years of experience in commercial textured finish application, and shall have completed at least 3 projects of similar size and complexity. Contractor shall provide proof before commencement of work that he/she will maintain and supervise a qualified crew of applicators through the duration of the work. When requested Contractor shall provide a list of the last three comparable jobs including the name, location, and start and finish dates for the work.
- C. Mock-ups: The contractor shall install a mock-up of the system for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent.

- D. Testing: Testing shall be conducted as directed by the design professional, building owner, or owner's representative/quality assurance agent to verify wall assembly performance, and to verify adhesion to prepared substrates before and during construction. Where substrate is too dense or non-absorbent for adhesion, or where a bond inhibiting material is on the surface, or in any case where adhesion is in question, install portland cement plaster over metal lath or other appropriate plaster base as directed by design professional, owner, or owner's representative/quality assurance agent.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original packaging, labeled with product identification, manufacturer, and batch number.
- B. Store products in a dry area with temperature maintained between 50 and 85 degrees F (10 and 29 degrees C). Protect from direct sunlight. Protect from freezing. Protect from extreme heat (>90 degrees F [32 degrees C]).
- C. Handle products in accordance with manufacturer's printed instructions.

1.6 WARRANTY

- A. Provide manufacturer's standard limited warranty. Maximum warranty period is achieved with Sto Crack Defense reinforcement layer.

PART 2 PRODUCTS

2.1 MATERIALS

2.2 FINISH COATS (*select one*)

- A. Stolit® Textured Finishes acrylic based, integrally colored textured finishes
 - Stolit 1.0, Stolit 1.0 Dark Colors, Stolit 1.5, Stolit 1.5 Dark Colors, Stolit Freeform, Stolit Freeform Dark Colors, Stolit R1.5, Stolit R1.5 Dark Colors,
 - Stolit® Lotusan® – acrylic based textured wall finish with graded marble aggregate and self cleaning properties
 - Stolit Lotusan 1.0, Stolit Lotusan 1.0 Dark Colors, Stolit Lotusan 1.5, Stolit Lotusan 1.5 Dark Colors, Stolit Lotusan Freeform, Stolit Lotusan Freeform Dark Colors
- B. Base Coat (*select one*)
 - 1. Sto BTS Plus - one component polymer modified cement-based high build base coat material (for leveling up to 1/16 inch [1.6 mm] in one pass)
 - a. Sto Crack Defense Surface Reinforcement (for crack resistance)
 - b. Sto Mesh – nominal 4.5 oz/yd² (153 g/m²) glass fiber reinforcing mesh treated for compatibility with Sto materials

PART 3 EXECUTION

3.1 INSTALLATION

- A. General Surface Preparation
- B. All substrate surfaces shall be straight and true to within 1/8 inch in 10 ft (3 mm in 3 m).

NOTE: the selected finish texture influences allowable tolerance of the substrate surface needed to produce the desired finished wall surface appearance. Smooth textures require tighter tolerances than coarse textures. A wall surface with planar irregularities of 1/16 inch (1.6 mm) or less is often needed for an acceptable finished wall surface appearance. The approved mock up shall be the basis for both acceptable substrate surface tolerances and finished appearance. Where substrate surfaces are highly irregular or out of plane the application of portland cement plaster in conformance with ASTM C 926 (direct applied to compatible prepared substrates or applied to ASTM C 1063 compliant metal plaster base), or StoTherm® ci, may be acceptable means of correcting the substrate surface condition, as determined by the design professional, owner, or owner's representative/quality assurance agent.

- C. Concrete: must be fully cured and free of voids, cracks, weak surface conditions such as laitance, and any other surface defects, and free of surface contamination such as grease, oil, wax, dust, dirt, salts, algae, mildew, pollen or any other surface contamination that could inhibit adhesion. Surface must be absorbent, slightly pitted or scarified.
- D. Concrete Masonry: must be fully cured and free of cracks, weak surface conditions such as laitance, and any other surface defects, and free of surface contamination such as grease, oil, wax, dust, dirt, salts, algae, mildew, pollen or any other surface contamination that could inhibit adhesion.
- E. Portland Cement Plaster: portland cement plaster must be in conformance with ASTM C 926. Surface must be fully cured and free of cracks, weak surface conditions such as laitance, and any other surface defects, and free of surface contamination such as grease, oil, wax, dust, dirt, salts, algae, mildew, pollen or any other surface contamination that could inhibit adhesion.
- F. Test adhesion as directed by design professional to verify adhesion to prepared substrate surfaces before and during construction. Where substrate surfaces are too smooth, dense or non-absorbent for adhesion, install appropriate metal lath plaster base and portland cement plaster in conformance with ASTM C 926, as directed by the design professional, owner, or owner's representative/quality assurance agent.
- G. Mixing
 - 1. Mix Sto products in accordance with published literature. Refer to applicable Product Bulletins for specific information on use, handling, application, precautions, and limitations of specific products.
- H. Application
 - 1. Install a skim coat of the Sto BTS Plus base coat material to the prepared wall surface by trowel to fill and level the surface and allow to dry.

2. Note: refer to this specification (Section 2.02C) and applicable Product Bulletins for thickness limitations of base coats and select appropriate Product based on “trueness” of wall substrate surface. See Note in Section 3.01A.
 3. Crack Defense Reinforcement Layer: Install nominal 1/8 inch (3 mm) base coat by trowel to the wall surface. Work horizontally or vertically in strips of 40 inches (1016 mm), and immediately embed the mesh into the wet base coat by troweling from the center to the edges of the mesh. Overlap mesh not less than 2-½ inches (64 mm) at mesh seams and feather at seams. Double wrap all inside and outside corners with minimum 8-inch (203 mm) overlap in each direction. Avoid wrinkles in the mesh. The mesh must be fully embedded so that no mesh color shows through. Re-skim with additional base coat if mesh color is visible.
 4. Apply the textured finish by trowel. Apply finish in a continuous application, and work to a wet edge. Float the finish to achieve the desired texture.
 5. Do not install base coat, reinforcing mesh or finish coat over joint sealants, cold joints, control joints, or accessories. Install over prepared concrete, concrete masonry, or portland cement plaster surfaces only.
- I. Protection
1. Provide protection of installed materials from water infiltration into or behind them during and after construction.
 2. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until they are fully dry.
 3. Provide coping and/or flashing at sills, projecting features, deck attachments, roof/wall intersections, parapets and similar construction details to prevent water entry into the wall assembly or into and behind the finish system. Seal penetrations through the finished wall surface with backer rod and sealant or other appropriate means to provide a watertight condition.

ATTENTION

Sto products are 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. They 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 Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to Sto products, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS 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.