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**80659 StoColor™ Texture - Medium
Textured Acrylic-Based, Vertical Above-Grade Exterior Wall Coating
for New Concrete, Stucco, and Masonry Construction**

**Section 099723
CONCRETE AND MASONRY COATINGS**

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 acrylic-based primer and textured acrylic-based finish coating for vertical, above-grade, new, uncoated concrete, stucco, and masonry walls.

IMPORTANT: This guide specification covers installation of a coating and primer 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.

- B. Related Sections: Other specification sections which relate directly to the work of this section include the following:
1. Section 033000, Cast-In-Place Concrete
 2. Section 034000, Precast Concrete
 3. Section 042200, Concrete Unit Masonry
 4. Section 092400, Portland Cement Plastering

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 International (ASTM)
- | | |
|-------------|--|
| ASTM D 4541 | Direct Tensile Bond |
| ASTM E 96 | Water Vapor Permeability, wet cup method |
| ASTM D 3273 | Mold Resistance |
| ASTM D 2247 | Moisture Resistance |
| ASTM E 84 | Surface Burning and Smoke Developed |
- B. U.S. Environmental Protection Agency (USEPA)
- | | |
|-----------|-----|
| Method 24 | VOC |
|-----------|-----|
- C. South Coast Air Quality Management District (SCAQMD)
- Rule 1113

1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be a company with at least thirty-five years of experience in manufacturing specialty coatings 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 experience in commercial coating application, and shall have completed at least 3 projects of similar size and complexity. Contractor shall provide proof before commencement of work that he 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 using proposed application means and methods to a wall area of at least 100 sq. ft. (9.29 sq.m.) for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent.
 - 1. Conduct tests in accordance with ASTM D 4541 on mock-up to verify adhesion of installed primer and top coat to prepared substrate. Test at least 3 specimens and report results to design professional, building owner, or owner's representative/quality assurance agent.
 - 2. Conduct tests during coating installation as directed by design professional, building owner, or owner's representative/quality assurance agent to verify adhesion throughout the course of the installation.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in original packaging, labeled with product identification, manufacturer, batch number, and shelf life.
- 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.

PART 2 PART 2 – PRODUCTS

2.1 MATERIALS

- A. **Concrete and stucco substrate primer:** Acrylic-based, tinted, high-pH compatible primer/sealer:
 - 1. 80805 StoPrime Hot, as manufactured by Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, Georgia 30331.
 - 2. **Performance and Physical Properties:** Meet or exceed the following values for material cured at 73 degrees F (23 degrees C) and 50 percent relative humidity (unless otherwise specified).
 - a. Application: Spray, roller, or brush.
 - b. Working time: 10-20 minutes, depending on ambient conditions.

- c. Adhesion to concrete: 680 psi (4.69 MPa), ASTM D 4541
 - d. Flame Spread Index: 0, ASTM E 84,
 - e. Smoke Developed: 10, ASTM E 84
 - f. Water vapor transmission: 30 perms (1720 ng/Pa s sq.m.), tested at 3 dry mils applied in one coat, ASTM E 96, wet cup method.
 - g. VOC: < 100 g/L, EPA 24, complies with SCAQMD Rule 1113
- B. Concrete masonry substrate primer:** Acrylic-based based, masonry block-filler/primer. Single component acrylic-based primer, containing acrylic polymer, and fine mineral fillers. Product shall comply with the following (select one):
- 1. 80804 StoPrime as manufactured by Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, Georgia 30331.
 - 2. 81520 StoPrime Block Surfacer HP as manufactured by Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, Georgia 30331.
 - 3. Performance and Physical Properties: Meet or exceed the following values for material cured at 73 degrees F (23 degrees C) and 50 percent relative humidity (unless otherwise specified).
 - a. Application: Spray, roller, or brush.
 - b. Working Time: 10-20 minutes.
 - c. Flame Spread: < 25, ASTM E 84
 - d. Smoke Developed: < 450, ASTM E 84
 - e. VOC: <100 g/L, EPA 24, Complies with SCAQMD Rule 1113
- C. Finish Coating:** Single component textured acrylic-based coating, containing acrylic polymer, and colored pigments. Product shall comply with the following:
- 1. 80659 StoColor Texture - Medium, as manufactured by Sto Corp.
 - 2. Performance and Physical Properties: Meet or exceed the following values for material cured at 73 degrees F (23 degrees C) and 50 percent relative humidity (unless otherwise specified).
 - a. Application: Spray, or roller.
 - b. Working Time: 10-30 minutes.
 - c. Moisture Resistance: No deterioration, ASTM D 2247, 14 day exposure.
 - d. Water Vapor Permeability: 46 perms (2637 ng/Pa s sq.m.) tested at 3 dry mils applied in one coat without aggregate, ASTM E 96, wet cup method.
 - e. Mold Resistance: No Mold Growth at 90 days, ASTM D 3273
 - f. Adhesion to Concrete: 300 psi (2.07 MPa), ASTM D 4541
 - g. VOC: <50 g/L, EPA 24, complies with SCAQMD Rule 1113

PART 3 EXECUTION

3.1 INSTALLATION

A. Surface Preparation

1. All surfaces must be clean, dry, sound, and free of frost and contamination such as mildew, dirt, grease, oils, salts, efflorescence and any other contamination that may affect adhesion.
2. Coordinate installation with adjacent work to ensure proper sequence of construction. Protect adjacent areas and landscaping from contact due to mixing, handling, and installation of materials.

B. Mixing

1. Mix Sto products in accordance with published literature for the product. Mix for approximately 3 minutes using a slow-speed drill and paddle to a uniform consistency. Avoid entrapping air in the liquid during mixing.

C. Application

1. Apply primer to prepared substrate in accordance with written instructions presented on the Sto Product Bulletin for the primer product being used.
2. Apply one coat, 80659 StoColor Texture - Medium, to primed surface by spray using a hopper gun or Sto M-8 Spray Pump with ¼ inch (6 mm) tip. Adjust air pressure and flow to achieve desired texture and uniform coverage.

D. Protection

1. Provide protection of installed materials from water infiltration into or behind them.
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 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.

END OF SECTION

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