

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

**Section 09 97 23  
CONCRETE AND MASONRY COATINGS**

**or**

**Section 19.91 23  
EXTERIOR PAINTS**

*This guide specification is intended for application of a Sto coating 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.*

*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 finish coating for vertical, above-grade, new, uncoated concrete, stucco, and masonry walls.
- B. Related Sections: Other specification sections which relate directly to the work of this section include the following:
  - 1. Section 03 30 00, Cast-In-Place Concrete.
  - 2. Section 03 40 00, Precast Concrete
  - 3. Section 04 22 00, Concrete Unit Masonry
  - 4. Section 09 24 00, 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 Safety Data Sheets.

### 1.3 REFERENCES

- A. ASTM International (ASTM)
  - ASTM D1308 Alkali Resistance
  - ASTM D7072 Efflorescence Blocking
  - ASTM D7234 Adhesion to Concrete
  - ASTM D1653 Water Vapor Permeability
- B. South Coast Air Quality Management District (SCAQMD)
  - Rule 1113 - VOC

### 1.4 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: The manufacturer shall be a company with at least forty years of experience in manufacturing specialty coatings and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have an active ISO 9001 certified quality system and ISO 14001 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/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 using proposed application means and methods to a wall area of at least 100 ft<sup>2</sup> (9.29m<sup>2</sup>) for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent. Mock-up shall be of sufficient size to adequately demonstrate proposed application means and methods.

- D. Field Quality Control Tests
  - 1. Conduct tests in accordance with ASTM D4541 on mock-up to verify adhesion of installed primer and topcoat 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 installation.

## **1.5 DELIVERY, STORAGE AND HANDLING**

- A. Deliver products in original unopened 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 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.
- B. Concrete masonry substrate primer: Acrylic-based masonry block-filler/primer. Single component acrylic-based primer, containing acrylic polymer, and fine mineral fillers:
  - 1. 81520 StoPrime Block Surfacer HP as manufactured by Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, Georgia 30331.
- C. Finish Coating: Single component 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., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, Georgia 30331.
  - 2. Testing Requirements: meets or exceed the following test results:

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
<b>Alkali Resistance</b>	ASTM D1308	4 hours exposure	No lifting, wrinkling, disintegration, or color change
<b>Efflorescence Blocking</b>	ASTM D7072	48 hours in humidity cabinet at 100°F (39°C)	Slight efflorescence observed
<b>Adhesion to Concrete</b> psi (MPa)	ASTM D7234	>50 (0.344)	484 (3.34)
<b>Water Vapor Permeability</b> Perms (ng/Pa·s·m <sup>2</sup> )	ASTM 1653** Wet-cup method	2 coats at 10 mils WFT each	21 (1201)
<b>Solids Content by Volume (%)</b>	Calculation	N/A	53%
<b>VOC (g/L)</b>	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.		
* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.			
**D1653 results are estimates based on E96 wet cup method			

## PART 3 EXECUTION

### 3.1 INSTALLATION

#### A. Surface Preparation

- 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. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist.
- If pressure washing, follow necessary safety precautions and adjust pressure to avoid damage to the underlying substrate. For mold, algae, and mildew removal, treat surfaces with a compatible commercial mildew removal and/or wash product, carefully following manufacturer's application and safety directions for use and handling, including any special requirements when used in preparation for application of paints or coatings.
- 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

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

#### C. Application

- Apply primer to prepared substrate in accordance with written instructions presented on the Sto Product Bulletin for the primer product being used.
- Apply two coats of StoColor Texture Medium at a rate of 50-75 ft<sup>2</sup> (4.6-8.0m<sup>2</sup>) per gallon. Apply first coat directly to primed substrate and allow to dry completely before applying second coat.

#### 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 coating 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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