



Building with conscience.

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**80211 StoColor® Lastic Sand
Acrylic-Based, Elastomeric
Vertical Above-Grade Exterior Fine Sand Texture Wall Coating
for New Concrete, Stucco, and Masonry Construction**

**Section 099723
CONCRETE AND MASONRY COATINGS**

This guide specification covers installation of a coating and primer over new 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 and any remedial measures that may be necessary, including those needed to comply with the applicable building code.

For purposes of this specification, primer is optional depending on the condition of wall surfaces. Primer is generally necessary for high pH surfaces, or highly weathered and absorbent surfaces, and to enhance adhesion, durability, and aesthetics. Primer products are included in this specification for consideration by the design professional based on substrate condition. Whether or not a primer is necessary should be based on mock-up construction and field adhesion tests.

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 guide specification should be modified as necessary to accommodate individual project conditions.

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PART 1 GENERAL

1.1 SUMMARY

- A. Provide acrylic-based primer, and acrylic-based elastomeric fine sand texture 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 Material Safety Data Sheets.

1.3 REFERENCES

- A. ASTM International (ASTM)
ASTM D2697 Percent Solids
- B. South Coast Air Quality Management District (SCQAMD)
Rule 1113 VOC
- C. U.S. Environmental Protection Agency (USEPA)
EPA Method 24 VOC

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 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 of 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 25 sq. ft. (2.32 sq.m.) for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent. Mock-up shall be 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 top coat to prepared substrate. Test at least 3 areas 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 PRODUCTS

2.1 MATERIALS

- A. Concrete and stucco substrate primer
 1. 80805 StoPrime Hot: Acrylic-based, tinted, high-pH compatible primer/sealer
- B. Concrete masonry substrate primer:
 1. 81520 StoPrime Block Surfacers HP: Acrylic-based concrete masonry primer/high build filler.
- C. Finish Coating
 1. 80211 StoColor Lastic: Single component acrylic-based elastomeric, tinted, fine sand texture coating
 - a. Percent Solids by volume: ASTM D2697, 51%
 - b. VOC: 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.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Surface Preparation
 1. All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, or any other condition that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist.

2. If pressure washing, follow necessary safety precautions and adjust pressure to avoid damage to the substrate. For mold, algae, and mildew removal, treat surfaces with a 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 and coatings.
 3. 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. Primer: Apply uniformly with brush, roller, or proper spray equipment to prepared substrate in accordance with written instructions presented on the Sto Product Bulletin for the primer product being used.
 2. Finish Topcoat: Apply two uniform coats of 80211 StoColor Lastic Sand, 12-14 wet mills, per coat, by brush, roller, or with proper spray equipment to prepared primed surface. Allow first coat to dry completely before applying second coat. Final thickness of StoColor Lastic Sand shall be 6.1-7.1 dry mills, per 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 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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