



Building with conscience.

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**80647R StoColor® Acryl Plus
Acrylic-Based, Vertical Above-Grade Flat Exterior Wall Coating for
Recoating EIFS, Concrete, Stucco, and Masonry**

**Section 09 01 90.92
COATING RESTORATION**

or

**Section 19.91 23
EXTERIOR PAINTS**

This guide specification is intended for application of a Sto coating over existing 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 existing coated 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 existing project conditions. Whether or not a primer is necessary should be based on mock-up construction and field adhesion tests. For best results, two coats of StoColor Acryl Plus are recommended.

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 finish coating for recoating vertical, above-grade, existing coated concrete, stucco, masonry, and EIFS walls.
- B. Related Sections: Other specification sections which relate directly to the work of this section include the following:
 - 1. Section 07 92 00, Joint Sealants

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 D4541 Field Adhesion Tests, Direct Tensile Bond
 - ASTM G154 Accelerated Weathering
- 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 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 appropriate surface preparation, and 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. 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 course of 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**

NOTE: use conditioner or primer based on prepared surface condition as indicated below. A primer may not be required if existing prepared surface condition is suitable as is to receive finish coating. Construct a mock-up and conduct field adhesion tests to verify performance of primed and un-primed applications. For best results two coats of StoColor Acryl Plus are recommended.

- A. Surface Conditioner – for chalking or highly absorbent existing painted surfaces
 - 1. StoPrime Conditioner: water-based surface conditioner
- B. Primer: (choose one)
 - 1. 80805 StoPrime Hot: acrylic-based, tinted, high-pH compatible primer/sealer for high pH surfaces, as manufactured by Sto Corp..
 - 2. 81520 StoPrime Block Surfacers HP: acrylic-based masonry block-filler/primer for open texture porous surfaces (e.g., concrete masonry), as manufactured by Sto Corp.
- C. Finish Coating: Single component acrylic-based coating, containing acrylic polymer, and colored pigments.
 - 1. 80647 StoColor Acryl Plus, as manufactured by Sto Corp.
 - 2. Testing Requirements: meet or exceed the following test results:

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT*
Accelerated Weathering	ASTM G154	2000 hours	No deleterious effects at 4000 hours
% Solids by Volume	Calculation	N/A	45%
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.		
* 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

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 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, including any special requirements when used in preparation for application of paints or 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 up to 3 minutes using a slow-speed drill and paddle to a uniform consistency. Avoid entrapping air in the liquid during mixing.

C. Application

NOTE: Do not apply primer or finish coating to StoPrime conditioner if it dries to a gloss. Remove gloss with mechanical abrasion. Omit conditioner if substrate condition is such that no conditioner is required based on mock-up and field adhesion tests.

1. Surface Conditioner

- a. Apply StoPrime Conditioner evenly with brush, roller or proper spray equipment to properly prepared mildly chalking substrates.
- b. Follow application instructions on StoPrime Conditioner, read product bulletin carefully.

NOTE: Select "a" or "b". Omit primer application if substrate condition is such that no primer is required based on mock-up and field adhesion tests, and apply two finish coats.

2. Primer

- a. **StoPrime Hot:** Apply uniformly with brush, roller, or proper spray equipment at 5-7 wet mils to prepared surface and allow to dry. Minimum final dry thickness shall be 2.1 mils.
- b. **StoPrime Block Surfer HP:** Apply uniformly with brush, roller, or proper spray equipment at 14-16 wet mils to prepared surface and allow to dry. Minimum final dry thickness shall be 7.7-8.8 dry mils.

3. Finish Coat:

- a. **80647 StoColor Acryl Plus:** Apply uniformly with brush, roller, or proper spray equipment at 6-8 wet mils per coat to prepared surface and allow to dry. As specified or required by project specific documents, apply a second coat and allow to dry. Final thickness of coating shall be 3.2 dry mils, 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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