



ALL-WEATHER (SMOOTH AIRLESS) COATING SYSTEM

09960

PART - GENERAL

1.01 RELATED REQUIREMENTS

Review Division 1, General Requirements, or Contract Documents, which contain information and requirements that apply to the Work.

1.02 DESCRIPTION

This Section describes the requirements for providing a high-build, all-weather plasticized epoxy-acrylate, acrylic resin smooth coating system for Concrete, Masonry and Cement Plaster as indicated on the drawings, scheduled or specified.

1.03 SUBMITTALS

- A. Product Data: Furnish manufacturer's Technical Data Sheets, MSDS and application instructions.
- B. Performance Data: Furnish independent test data verifying performance properties equal to products specified.
- C. Samples: Submit 8" x 10" drawdown samples for each color selected. Samples shall be made of coating specified, match colors select by Architect/Owner.
- D. Field Samples: Submit full sample panel on jobsite building on surface as selected by Architect/Owner. Must obtain approval of sample and color prior to proceeding with full application. Sample panel to become part of finished job.

1.04 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Not less than 10 years successful experience in supplying materials of the types equivalent to those required for this Project.
- B. Installer Qualifications: Not less than 5 years experience installing products of this type.
- C. Single Source: Provide materials, which are the products of a single manufacturer and formulated for the manufacturer's prototype system proposed for use.
- D. Application Equipment: Spray: Graco 7000 with 3/8" hose, Tip size .027-.029 or equal Brush/Roller: 3/4" nap roller cover.
- E. Warranty: Upon completion of application of material in accordance with the manufacturer's directions, Manufacturer will issue its 5 YEAR WARRANTY.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Packaging: Deliver materials to job site in manufacturer's original unopened containers, with labels intact and readable, listing manufacturer, coating type, product name, and batch numbers.
- B. Manufacturer's Instructions: Comply with manufacturer's instructions for storage and handling, including cautions on product data safety sheets.



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- C. Unusable Material: Discard deteriorated material and materials manufactured more than 12 months before application.

1.06 JOB CONDITIONS

- A. Verify that roof and parapet top caps are installed and sealed against water penetration prior to coating.
- B. Environmental Requirements:
 - 1. Ambient Air temperature: At least 40°F degrees but not exceeding 100°F degrees during application. Precipitation: Do not apply primer and coating materials during precipitation and when precipitation is imminent or anticipated.
 - 2. Ultraviolet Light: Do not allow primer to be exposed to ultraviolet light for more than four weeks prior to application of coating. If exposure exceeds the four week limit, apply additional coat of primer.
- C. Ensure that retaining walls, planter boxes, and below grade surfaces are waterproofed on the side against the earth prior to application of finish to exposed surfaces.

PART 2 - PRODUCTS

Textured Coatings of America, Inc.,
5950 S. Avalon Blvd., Los Angeles, CA 90003
323-233-3111

Textured Coatings Of America, Inc.
4101 Ravenswood Rd., Ste. 218, Fort Lauderdale, FL 33312
954-581-0771

2.02 MATERIALS

- A. TEX•COTE® XL-70 SMOOTH Coating
- B. Patching Compounds:
 - 1. Fine Cracks up to 1/32": Brush or knife TEX-COTE XL-70 SMOOTH into cracks and brings to smooth and flush with concrete surface.
 - 2. Cracks larger than 1/32": Use cementitious patching compound with acrylic bonding adhesive agent. i.e.: ARDEX, SACK-CRETE or equal. Fill cracks and bring smooth and flush with existing surfaces.



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3 - EXECUTION

3.01 INSPECTION

Verify that conditions are satisfactory for application of the textured coating system. Do not proceed with the work of this Section until unsatisfactory conditions have been corrected. Notify the General Contractor and Architect in writing of any unsatisfactory conditions.

A. Concrete:

1. Verify fins and projections removed.
2. Verify repair of gravel pockets, honeycomb holes, air entrained holes, breakouts and damaged surfaces.
3. Verify patching material cementitious; and or water resistant flexible patching compound.

Caulked Panel Joints:

1. Verify caulk paintable and compatible with coating system.
2. Verify caulk fully cured in accordance with manufacturer's directions.
3. Verify caulking system provides a clean, dry, smooth, bondable surface, free of residue and site dirt.

3.02 PREPARATION

A. General:

1. Surfaces must be sound, clean, and dry prior to application of coating.
2. Remove dust, dirt, mildew, form oils, bond breaker, loose substrates, and other surface contaminants. Pressure Wash or mechanically abrade as needed to provide sound, clean surface prior to application of primer.
3. Manufacturer's Rep to inspect and accept surface prior to application of coating.

3.03 APPLICATION

A. Finished Coating System must comply with FEDERAL STANDARD TT-C-555b Type II for performance and finish.

1. Remove skins formed on surface of material before moving containers, mixing material, or applying material.
2. Apply a uniform, continuous, pin-hole free film.
3. Use adequate equipment and skilled workers, maintain a wet edge, avoid lap marks and uneven spray patterns.
4. Continue work to a panel edge, corner, seam or other natural break.
5. Do not apply material below grade in contact with earth.
6. Do not spray in excessive wind conditions.

B. FINISH TEXTURED COATING SYSTEM:

1. Finish Smooth Coat - Apply TEX·COTE® XL-70 Smooth Airless
Spread Rates: 80-100 sf/Gallon. Must achieve 7-10 mils DFT per coat.
Two coats recommended- masonry, cement plaster



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C. **PRODUCT PERFORMANCE CRITERIA:**

1. Provide smooth VTACL resinous coating system which passes Federal Standard TT-C-555B Type II as well as 98 mph wind driven rain test and mildew resistance test. Smooth Coating shall meet or exceed the following performance criteria, provide Independent test data to verify product performance;
 - a. Water vapor permeability, ASTM E96 - 9.5 metric perms
 - b. Accelerated Weathering, ASTM D2243 - 10,000 hours

 - c. Flexibility, ASTM D522 mandrel bend test - 1" (25.4mm)
 - d. Freeze/Thaw resistance, ASTM D2243 - 375 cycles
 - e. Abrasion resistance, ASTM D968 - 10% erosion at 2,000 L
 - f. Salt spray exposure, ASTM B117-64 Std Method - 3,000hrs

END OF SECTION