

SECTION 09 9419**INTERIOR MULTI-COLOR FINISHING****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnish and install multi-color coating as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 09 9001: 'Common Painting And Coating Requirements':
 - a. Pre-installation conference for Sections under 09 9000 heading 'Paints and Coatings'.

1.2 REFERENCES

- A. Reference Standards:
 - 1. American Society For Testing And Materials:
 - a. ASTM D2486-06, 'Standard Test Methods for Scrub Resistance of Wall Paints'.
 - b. ASTM D2794-93(2010), 'Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)'.
 - c. ASTM E84-11a, 'Standard Test Method for Surface Burning Characteristics of Building Materials'.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conferences:
 - 1. Participate in pre-installation conference as specified in Section 09 9001.
 - 2. In addition to agenda items specified in Section 01 3100 and Section 09 9001, review following:
 - a. Review control sample.

1.4 SUBMITTALS

- A. Action Submittals:
 - 1. Samples:
 - a. **6 inch (150 mm)** square minimum samples of each color / pattern on each substrate to which finish is to be applied.
- B. Informational Submittals:
 - 1. Test And Evaluation Reports:
 - a. Manufacturer's test results showing compliance to specification requirements.
 - b. Material Safety Data Sheets.
 - 2. Manufacturer Instructions:
 - a. Written surface preparation and application instructions.
- C. Closeout Submittals:
 - 1. Include following in Operations And Maintenance Manual specified in Section 01 7800:
 - a. Operations and Maintenance Data:
 - 1) Maintenance and repair instructions.
 - b. Warranty Documentation:
 - 1) Final, executed copy of Warranty.
 - c. Record Documentation:

- 1) Manufacturers documentation:
 - a) Manufacturer's literature or cut sheet for finish system.
 - b) Color and pattern selection.

1.5 QUALITY ASSURANCE

- A. Regulatory Agency Sustainability Approvals:
 1. Fire Hazard Classification: Class A rated when tested in accordance with ASTM E84.
 2. UBC Class 1.
- B. Qualifications:
 1. Installer: Requirements of Section 01 4301 applies, but not limited to following:
 - a. Applicator shall have two (2) years minimum experience in applying finish system and shall have passed Manufacturer's training program.
- C. Field Samples:
 1. Before application of finish system, meet on Project site with Architect, Owner's representative, and Manufacturer's representative. Architect will select one surface for application of system.
 2. Apply finish system to surface indicated by Architect following procedures outlined in Contract Documents and Manufacturer's application instructions.
 3. After approval of sample, proceed with application of finish system throughout Project.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery And Acceptance Requirements:
 1. Deliver products in Manufacturer's original sealed containers with Manufacturer's labels intact on each container. Labels shall provide following information as a minimum.
 - a. Manufacturer's name.
 - b. Name or title of product.
 - c. Manufacturer's color identification code.
 - d. Manufacturer's stock number.
 - e. VOC content.
- B. Storage And Handling Requirements:
 1. Keep materials within Manufacturer's temperature recommendations during transit and delivery to Project. Store products in protected area at between 45 and 100 deg F (7 and 38 deg C).

1.7 FIELD CONDITIONS

- A. Ambient Conditions:
 1. Apply coatings at ambient temperatures of between 50 and 90 deg F (10 and 32 deg C), with relative humidity less than 85 percent, and when surface temperature is 5 deg F (3 deg C) minimum above dew point.
 2. Prevent temperature fluctuations in areas where finish has been applied that could cause moisture condensation on freshly coated surfaces.

1.8 WARRANTY

- A. Manufacturer Warranty:
 1. Manufacturer's standard product warranty.

PART 2 - PRODUCTS

2.1 SYSTEM

- A. Manufacturers:
1. Manufacturer Contact List:
 - a. Master Coating Technologies, Eagan, MN www.scuffmaster.com.
 - b. Surface Protection Industries, Polomyx Div, North Billerica, MA www.zolatone.com.
 - c. Surface Protection Industries, Zolatone Div, North Billerica, MA www.zolatone.com.
- B. Description: Intent is to match existing multi-color paint scheme as closely as possible using the following potential color combinations:
- a. Polomyx, Star Colors.
 - 1) Color / Pattern: PL-00234G, PL-00451G, PL-00831W, PL-00832W, PL-00833G, PL-00834W (Garnet).
 - 2) Color / Pattern: PL-00234G, PL-00451G, PL-00834W (Sapphire).
 - 3) Color / Pattern: PL-00831W, PL-00832W, PL-00833G (Emerald).
 - b. Scuffmaster Premium-Coat Colors.
 - 1) Color / Pattern: Specks / SK 229 or 216 (Garnet).
 - 2) Color / Pattern: Specks / SK 227, 215, 216, or 225 (Sapphire).
 - 3) Color / Pattern: Specks / SK 215 (Emerald).
 - 4) Color / Pattern: Specks / SK 203 (Chameleon).
 - c. Zolatone, Prism Colors.
 - 1) Color / Pattern: ZL-00222W, ZL-00224G, ZL-00303W, ZL-00361W (Garnet).
 - 2) Color / Pattern: ZL-00222W, ZL-00224G, ZL-00303W, ZL-00361W, ZL-00813W (Sapphire).
 - 3) Color / Pattern: ZL-00812P, ZL-00813W (Emerald).
- C. Performance:
1. Capabilities:
 - a. Impact resistance: No break at 160 inch pounds when tested in accordance with ASTM D2794.
 - b. Scrubability: Minimum 3000 cycles to system failure when tested in accordance with ASTM D2486.
 - c. Free from lead, mercury, chromium, and crystalline silica.
 - d. VOC Content:
 - 1) Pattern Coat: 236 grams per liter maximum.
 - 2) Base Coat: 380 grams per liter maximum.
 - e. Hazardous Materials Identification System rating of One.
- D. Materials:
1. Liquid-Applied Multi-Color Interior Coating System: Urethane or acrylic / urethane base coat formulation with pattern coating and clear coating as necessary to meet specification requirements.
 2. Category Four Approved products. See Section 01 6200 for definitions of Categories:
 - a. Polomyx Waterbase, Star Colors by Surface Protection Industries, Polomyx Div.
 - b. Scuffmaster Premium-Coat 200 Base Coat and Pattern Coat by Master Coating Technologies.
 - c. Zolatone Waterbase, Prism Colors by Surface Protection Industries, Zolatone Div.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification Of Conditions:

1. Examine surfaces to be coated for conditions that could adversely affect coating system appearance or performance.
2. Notify Architect in writing of such conditions.
 - a. Do not begin application until surfaces are acceptable.
 - b. Commencement of Work by installer is considered acceptance of surface.

3.2 PREPARATION

- A. General:
 1. Clean surfaces of loose and foreign matter that could affect adhesion or performance of coating system.
 - a. Clean rooms where finish system is to be applied so there is no dust, dirt, or debris.
 2. Surfaces to be clean, dry, protected from dampness, smooth, and even.
- B. New Surfaces:
 1. Gypsum Board: Sweep surface with broom and wipe with damp rag. Remove powder from sanding.
 2. Masonry And Concrete: Allow surfaces to cure minimum 28 days. Remove form release agents.
- C. Existing Surfaces:
 1. Remove loose paint, dirt, and chalk with scraper and strong detergent solution.
 2. Remove zinc salt deposits with TSP.
 3. Remove mildew by scrubbing with mixture of liquid household bleach and water at one to three ratio.
 4. Aluminum:
 - a. Scrub with mixture of 8 tablespoons (118 milliliter) household detergent to 1 gallon (4 liters) warm water.
 - b. Rinse with clean water and allow to dry.
 5. Galvanized Metal:
 - a. Wash with alcohol or VM&P naphtha and allow to dry.
 6. Vinyl Wall Covering:
 - a. Check for complete adhesion of wall covering to surface, especially at edges and seams, by applying base coat to small area over edge or seam. Allow 30 minutes. If wall covering bubbles or peels, stop work and notify Architect.
 7. Slick or Shiny Surfaces:
 - a. Clean and degrease, then sand with fine silicone carbide sand paper.

3.3 APPLICATION

- A. Apply coatings using Manufacturer-approved equipment with lighting conditions approximating those normal in building when finished and in use.
- B. Apply coatings evenly to uniform opaque coverage without runs, sags, holidays, lap marks, air bubbles, or pinholes. Match approved samples.
- C. Reprime suction and hot spots on substrate before applying base coatings.
- D. Allow each coat to dry completely and ensure an undamaged condition before applying succeeding coats.
- E. Apply each coat to a natural break point, such as an edge or corner, without stopping.
- F. Apply coatings at coverage rate specified by Manufacturer for each color / pattern.
- G. Adjust spray tip size and air pressure for specified color / pattern according to Manufacturer's instructions.

3.4 FIELD QUALITY CONTROL

- A. Field Inspections:
 - 1. Request acceptance of each coat before applying succeeding coats.
- B. Non-Conforming Work:
 - 1. Touch up and repair unacceptable work.

3.5 CLEANING

- A. Remove coatings from adjacent and underlying surfaces.
- B. Repair damage to coatings and surfaces caused by cleanup activities.

END OF SECTION