# SECTION 09 96 00 – High Performance Coatings

## Part 1 - GENERAL

### RELATED DOCUMENTS

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

### SUMMARY

1. Section Includes:

##### Preparation, Cleaning, and Application of Breathable High Performance Protective Color/Tinted Coating Applied to existing/prefinished Vertical Interior Exposed Limestone/Mortar Surfaces.

1. Related Sections:

##### Section 09 91 24 “Interior Painting” for coordination of additional finishes.

### ACTION SUBMITTALS

1. Product Data: For each type of product. Include preparation requirements and application instructions.

##### Include detailed test results of materials applied to surfaces similar to requirements of this Section.

##### Include manufacturer's instructions for methods and application procedures.

##### Include manufacturer's certification indicating high performance coating conforms to or exceeds requirements stated herein.

##### Indicate VOC content.

1. Samples for Color Verification: For each color.

##### Submit Samples on rigid backing, 8 inches (200 mm) square.

1. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

### MAINTENANCE MATERIAL SUBMITTALS

1. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
2. Paint: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

### QUALITY ASSURANCE

1. The Contractors involved with work covered by this Section shall have had a minimum of five years’ experience using specified techniques for high performance coating application.
2. Tradesman must be competent and experienced and shall demonstrate reasonable care during performance of operations described in this Section.
3. Any contractor and all associated personnel performing work on lead-based painted surfaces as identified in Appendix 1, shall comply with the Environmental Protection Agency (EPA) / Housing Urban Developments (HUD) Renovation, Repair and Painting Program (RRP) regarding the 2008 Lead-Based Paint Renovation, Repair and Painting (RRP) Rule (as amended in 2010 and 2011) and follow the HUD Lead Safe Work Practices as necessary.

### DELIVERY, STORAGE, AND HANDLING

1. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 degrees Fahrenheit (7 degrees Celsius) and not above 100 degrees Fahrenheit (38 degrees Celsius).

##### Maintain containers in clean condition, free of foreign materials and residue.

##### Remove rags and waste from storage areas daily.

### PROJECT CONDITIONS

1. Protection:

##### Contractor shall provide, at all times, covered access to premises and necessary utilities, space for storage of material and equipment, etc.

##### All activities shall be in compliance with local and governmental regulations and codes.

##### The surface and atmospheric temperature should be at least 40 degrees Fahrenheit and rising during application and for twenty-four hours following. Surface and air temperatures should not exceed 95 degrees Fahrenheit.

##### Surfaces should be dry.

##### Apply only in well ventilated areas.

##### The Contractor shall require applicators to observe safety precautions as outlined on containers and labels. It is the responsibility of the Contractor to provide well ventilated areas for all workmen as well as to observe safety precautions as stipulated on labels and instructions of all materials used, and as required by governing authorities during application and drying.

## - PRODUCTS

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1. Breathable, High Performance Protective Color/Tinted Coating for Masonry:

##### Use, high performance silicone emulsion colored or tinted coating for protecting masonry surfaces.

##### Provide:

##### "Breathable Masonry Coating II” or “BMC II"; [PROSOCO, Inc.](http://www.prosoco.com/) (800-255-4255) (Basis of Design) or equal.

##### Color as selected by Architect.

##### Subject to compliance with the following requirements:

##### Comply with national, state and district AIM VOC regulations and contain 100 g/L or less.

##### Recipient of SCS Global Services’ SCS Indoor Advantage Gold- Building Materials Certification or equivalent.

##### Vapor Permeability: Greater than 23 perms when tested in accordance with ASTM D 1653.

##### Adhesion: Score 3A or greater when tested in accordance with ASTM D 3359 (Method A).

##### Adhesion: Cohesive failure of the substrate rather than adhesive failure of the coating when tested in accordance with ASTM D 4541.

##### Air Leakage of Air Barrier Assemblies: Less than or equal to 0.04 cfm per square foot at 1.57 psf (less than or equal to 0.2 liters s∙sq.m. at 75 Pa) when tested in accordance with ASTM E2357.

### SOURCE QUALITY CONTROL

1. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:

##### Owner may engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.

##### Testing agency will perform tests for compliance with product requirements.

##### Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

## EXECUTION

### PREPARATION

1. Examine conditions for compliance with manufacturer’s requirements for installation, and other specific conditions affecting the adhesion and performance of high-performance coating.
2. Verify surfaces to receive high-performance coating are clean, free of efflorescence, algae, oil, grease, moisture stains, or other foreign matter detrimental to application.
3. Remove loose particles and foreign matter.
4. Allow surfaces to dry prior to application.
5. Protect all surrounding areas as necessary.

### Breathable High Performance Protective Color/Tinted Coating APPLICATION (VERTICAL APPLICATION)

1. Test each surface and/or material to be treated to ensure adhesion and compatibility with high performance coating. The surface to be treated must be clean and free of all foreign matter and as dry as possible to ensure proper penetration of high performance coating.
2. Apply high performance coating to masonry surfaces that comply with manufacturer's written instructions; use roller, brush or spray application methods, at Contractor's option.
3. Apply high performance coating to vertical, visibly dry surfaces and comply with manufacturer's written instructions.
4. Proceed with application of uniform high performance coating in an orderly manner once application rate has been tested; work from top down. Brush out runs or drips. Back roll spray application for proper adhesion.

##### Apply high performance coating to meet minimum thickness, as recommended by manufacturer.

1. Reapply second coat of high performance coating, as recommended by manufacturer.

##### Apply once first coat is dry to touch, or within two (2) to four (4) hours of first coat.

1. Use manufacturer recommended field adhesion test method that complies with ASTM D 4541.

### PROTECTION

1. Protect treated surfaces from water for a minimum of six (6) hours or until coating is thoroughly dry.
2. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect.

END OF SECTION 09 96 00