



**SPECIAL PROVISIONS
FOR
HIGH PERFORMANCE COATINGS**

**Clinton County
NHSX-030-9(134)--3H-23**

**Effective Date
January 18, 2012**

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

PART 1 GENERAL.

1.01 SECTION INCLUDES.

- A. High performance coatings.

1.02 MEASUREMENT AND PAYMENT.

- A. Basis of Measurement: Not Applicable – Incidental item
- B. No Applicable – Incidental item

1.03 REFERENCES.

- A. FS TT-P-28 - Paint, Aluminum, Heat Resisting (1200 degrees F.); Federal Specifications and Standards; Revision G, 1985.
- B. SSPC-SP 2 - Hand Tool Cleaning; Society for Protective Coatings; 1982 (Ed. 2004).
- C. SSPC-SP 3 - Power Tool Cleaning; Society for Protective Coatings; 1982 (Ed. 2004).
- D. SSPC-SP 5 - White Metal Blast Cleaning; Society for Protective Coatings; 2000 (Ed. 2004).
- E. SSPC-SP 6 - Commercial Blast Cleaning; Society for Protective Coatings; 2000 (Ed. 2004).
- F. SSPC-SP 7 - Brush-Off Blast Cleaning; Society for Protective Coatings; 2000 (Ed. 2004).
- G. SSPC-SP 10 - Near-White Blast Cleaning; Society for Protective Coatings; 2000 (Ed. 2004).
- H. SSPC-SP 11 - Power Tool Cleaning to Bare Metal; Society for Protective Coatings; 1987 (Ed. 2004).

1.04 SUBMITTALS.

- A. Samples: Submit two samples 6 inches by 6 inches in size illustrating colors available for selection.

- B. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- D. Maintenance Data: Include cleaning procedures and repair and patching techniques.
- E. When requested, the manufacturer shall submit certified samples of paints to be used on the Department projects. Sample size shall be one pint.

1.05 QUALITY ASSURANCE.

- A. Maintain one copy of each referenced document that applies to application on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- C. Applicator Qualifications: Company specializing in performing the work of this section with minimum 3 years documented experience.

1.06 MOCK-UP.

- A. Provide mock-up, 2 feet long by 2 feet wide, illustrating coating, color, and surface sheen, for each specified coating.
- B. Mock-up may remain as part of the Work.

1.07 WARRANTY.

- A. Correct defective Work within a five year period after Final Payment.
- B. Warranty against defective work includes the following:
 - 1. Peeling, delamination or flaking of high performance coating from substrate.
 - 2. Blistering or bubbling from substrate.
 - 3. Alligator cracking due to differential expansion of coating and substrate.
 - 4. Chalking or excessive fading of color.

1.08 MAINTENANCE PRODUCTS.

- A. Provide 1 gallon of color matched exterior grade polyurethane paint for each color specified, for Contracting Authority's maintenance use.
- B. Label each container with manufacturer's name, product number and color number.

PART 2 PRODUCTS.

2.01 MANUFACTURERS.

- A. High-Performance Coatings:
 - 1. PPG Architectural Finishes, Inc.
 - Product: Amercoat 385 Multi-Purpose - Intermediate Coat
 - Amercoat 450 HS Aliphatic- Finish Coat
 - 2. Tiger Dry-Lac
 - Product: Series 49 Polyester TGIC Powder Coating
 - 3. Carboline Co.
 - Product: Carboline 888 - Intermediate Coat
 - Carboline 133 HB (Simi Gloss) - Finish Coat
 - 4. H.B. Fuller Company
 - Product: Omega Caliber Weatherable Powder Coat
 - 5. PPG Architectural Finishes, Inc.
 - Product: Environchron Powder Coat

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| 6. | Sherwin Williams
Product: | Recoatable Epoxy B67 Seriesv - Intermediate Coat
Acrolon 218 - Finish Coat
Aluminum Finish Coat (if required): Acrolon 218 (aluminum filled) |
| 7. | Sherwin Williams
Product: | Corothane I - Mio-Aluminum - Intermediate Coat
Corothane I - Mio-Aluminum - Finish Coat |
| 8. | Sherwin Williams
Product: | Macropoxy 646 - Intermediate Coat
Acrolon 218 - Finish Coat
Aluminum Finish Coat (if required): Acrolon 218 (aluminum filled) |

2.02 MATERIALS.

- A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated. Number of coats specified does not include primer or filler coat.
 - 1. Colors: Selected from manufacturer's standard colors.
- B. Primers: As recommended by coating manufacturer for specific substrate.
- C. General Requirements: Paint shall be free of toxic metals and shall meet latest Federal VOC regulations.

PART 3 EXECUTION.

3.01 EXAMINATION.

- A. Verify existing conditions before starting work.
- B. Verify that substrate surfaces are ready to receive work as instructed by the coating manufacturer. Obtain and follow manufacturer's instructions for examination and testing of substrates.

3.02 PREPARATION.

- A. Clean surfaces of loose foreign matter.
- B. Remove finish hardware, fixture covers, and accessories and store.
- C. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent.
- D. Ferrous Metal:
 - 1. Solvent clean.
 - 2. Remove loose rust, loose mill scale, and other foreign substances using power tools according to SSPC-SP 3.
- E. Protect adjacent surfaces and materials not receiving coating from overspray; mask if necessary to provide adequate protection. Repair damage.

3.03 PRIMING.

- A. Apply primer to all surfaces, unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

3.04 COATING APPLICATION.

- A. Apply coatings in accordance with manufacturer's instructions, to thicknesses specified by manufacturer.
- B. Apply in uniform thickness coats, without runs, drips, pinholes, brush marks, or variations in

color, texture, or finish. Finish edges, crevices, corners, and other changes in dimension with full coating thickness.

3.05 CLEANING.

- A. Collect waste material which may constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Clean surfaces immediately of overspray, splatter, and excess material.
- C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.06 PROTECTION OF FINISHED WORK.

- A. Protect elements adjacent to the work of this section from damage and disfigurement.