

**SECTION 09 97 13
STEEL COATING**

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes exterior coatings on steel items or steel substrates.
- B. This Section excludes coating the following metal surfaces: stainless steel, anodized aluminum, copper, bronze, and brass.

1.02 SUBMITTALS

- A. Product Data: For each product specified in Part 2 - Products.
- B. Samples:
 - 1. Steel Coatings: For each coating type, color and steel substrate combination to be incorporated in the Work. Samples shall be fully cured, 8" square, with stepped coats to show each coat required for system; label each coat.

1.03 QUALITY ASSURANCE

- A. Qualifications :
 - 1. Manufacturer Qualification : Company with minimum 10 years of experience in manufacturing of specified products and systems.
 - 2. Applicator Qualifications: Company with minimum of 5 years experience in application of specified products and systems on projects of similar size and scope and is acceptable to product manufacturer.

1.04 PROJECT CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and surrounding air temperature are within manufacturer recommendations and will remain so for at least 24 hours. Verify minimum temperatures listed with products in Part 2 of this Section with manufacturer.
- B. Do not apply coatings under the following conditions:
 - 1. When conditions are outside the limitations permitted by the product manufacturer.
 - 2. In snow, rain, fog, or mist.
 - 3. When relative humidity exceeds 85 percent.
 - 4. When temperatures are less than 5° F above the dew point.
 - 5. When surfaces are damp or wet.

PART 2 - PRODUCTS

2.01 GENERAL

2.02 REFERENCE STANDARDS

- A. SSPC-SP 3 - Power Tool Cleaning; 2024.
- B. Product Callout Abbreviations Key: Steel coating product callouts include the following abbreviations:
 - a.2 coats
 - b. 3 coats
 - c. Exterior
 - d.Restoration of steel
- C. Coatings by Category:
- D. Epoxy:
- E. PPG: Amerlock 2 (2 parts).
- F. 6 mils per coat.
- G. Minimum application air and surface temperature is 20° F.

- H. Aliphatic Polyurethane (Top Coat): PPG:Americoat 450H (2 parts).
- I. 3.5 mils per coat.
- J. Minimum application air and surface temperature is 20° F.
- K. Polyamidoamine Epoxy:
 - 1. Sherwin Williams: Macropoxy 646 Fast Cure Epoxy (2 parts). 6 mils per coat.
- L. Minimum application air and surface temperature is 35° F.
 - a. Acrylic Polyurethane (Top Coat):
- M. Sherwin Williams: Acrolon 218 HS (2 parts) 4 mils per coat.
- N. Minimum application air and surface temperature is 35° F.
- O. Colors of Coatings: Where not specifically indicated, Architect will select colors through the sample submittal process.
- P. EXTERIOR STEEL COATINGS
- Q. Steel Coating: 3ER
- R. Sherwin Williams 3-Coat System: Prime Coat (Mill White Color):
 - 1. Second Coat (Gray Color):
 - a. Top Coat (Color selected by Owner):
 - 1) Macropoxy 646 Fast Cure Epoxy Macropoxy 646 Fast Cure Epoxy Acrolon 218 HS
 - 1. Sherwin Williams Sherwin Williams Sherwin Williams
 - a. OR

3.02 PPG 3-COAT SYSTEM:

- a. Prime Coat (Red Color): Amerlock 2 Second Coat (Gray Color) Amerlock 2
- b. Topcoat (Color selected by Owner): Americoat 450
- c. Or Equal

- F. Apply coating system to all surfaces in field.
 - a. Apply coatings to produce uniform surface films without cloudiness, holidays, laps, brush marks, runs, sags, or other surface imperfections.
- 2. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
 - a. TOUCH-UP
- G. At completion of the Work of other trades, touch up and restore damaged or defaced coated surfaces.

END OF SECTION 09 97 13