

DIVISION 9 - FINISHES

SECTION 09900 - PRIMING METAL SURFACES - RUST CONVERTING

PART I - GENERAL:

1.01 DESCRIPTION

- A. Section includes: All field priming of interior and exterior metal items and surfaces required to complete the work of this project.
- B. Requirements of this section are in addition to requirements of the Bidding/Contract Conditions and Division I.

1.02 SUBMITTALS

- A. Submit the following submittals in accordance with Section 03140.
- B. Submit:
 - 1. Materials list of items proposed to be provided under this section.
 - 2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.

1.03 PRODUCT HANDLING

- A. Deliver products to site in factory sealed and labeled containers in accordance with Section 01610.
 - 1. Container lableing shall include manufacturer's name, type of primer, brand name, brand code, coverage, surface preparation, drying time, cleanup, and instructions for mixing and reducing.
- B. Store and protect products in accordance with Section 01620.
 - 1. Store primer at minimum ambient temperatures of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C) in well ventilated areas.
- C. Take precautionary measures to prevent fire hazards and spontaneous combustion.

PART 2 - PRODUCTS

2.01 RUST CONVERTING PRIMER

- A. Provide the following United States patented material manufactured by Advanced Protective Products, Inc., or approved equal, approved in advance by the Architect.

Advanced Protective Products RUST DESTROYER

Minimum Specific Physical Properties:

- 1. Salt Spray Resistance: 300 hours as per ASTM B117, with a dry film thickness of 3 mils.
- 2. Accelerated Weathering: 500 hours as per ASTM E42, with various top coats.

3. Adhesion Test: 25 square crosshatch test with performance at 250 psi with no loss on intercoat adhesion nor in overall adhesion to the metal surface, after 300 hours of salt spray ASTM B117, and 500 hours of accelerated weathering ASTM E42.
4. Flexibility: No cracking when bent over 1/4" mandrell through 180°.
5. Solvent Emission: Meets rule 66. Maximum 280 grams per liter under the EPA/CARB VOLITILE ORGANIC COMPOUND (VOC) EMISSIONS guidelines for this product category.
6. Viscosity: 86-92 KU.
7. Total Solids Per Weight: 59% minimum.
8. Corrosion Deposits: After salt spray test ASTM B117, and the accelerated weathering test ASTM E42, there can not be any evidence of corrosion.
9. Non-Toxic: Does not contain lead, chrome, or other toxic pigments, must meet FDA and USDA approval.

PART 3 EXECUTION:

3.01 PREPARATION

- A. Prepare ALL metal surfaces in strict accordance with rust converting paint primer manufacturer's published instructions.
- B. New Metal Surfaces:
 1. Remove any grease or dirt from the surfaces.
- C. Scaling, Rusty Metal Surfaces:
 1. Remove loose or scaling particles, grease or dirt from the surfaces.
- D. Rusty, Painted Metal Surfaces:
 1. Remove loose particles, grease or dirt from the surfaces.
- E. Rusty Metal Surfaces:
 1. Remove grease or dirt from the surfaces.
- F. Glossy Painted Metal Surfaces:
 1. Remove grease or dirt from the surfaces.
 2. No sanding of glossy surface needed for adhesion.
- G. Rust converting Paint Primer must work on ALL surfaces listed above.

3.03 APPLICATION OF RUST DESTROYER

- A. Equipment
 1. RUST DESTROYER can be applied by brush, roller or spray (airless or conventional).
- B. Apply RUST DESTROYER in strict accordance with manufacturer's published instructions.
- C. Product can be applied to damp surfaces at 35°F.
- D. Allow for complete drying, accroding to manufacturer's recommendation, prior to applying top/finish coat.

PART 4 - WARRANTY

- 4.01 Manufacturer shall provide to Architect, after product has been applied according to manufacturer's recommendations, a 5 year warranty that the product stops rust for five years when coated with any commercially produced top coat paint, designed for application on exterior metal surfaces in the specific environment.