



P.O. Box 788  
Coupeville, WA 98239

(800) 237-1573  
(360) 678-1905  
fax (360) 678-1943

Joan T. Geiger Enterprises, Inc.  
<http://www.corroseal.com>  
E-Mail: [Rust4me@corroseal.com](mailto:Rust4me@corroseal.com)

## Corroseal™ Rust Converting Primer Product Guide Specification

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Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Three-Part Section Format and Page Format, contained in the CSI Manual of Practice. The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

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### SECTION 09875 RUST CONVERTER AND METAL PRIMER

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Specifier Notes: This section covers Corroseal, Inc. "Corroseal Rust Converter and Copolymer Metal Primer". Corroseal is recommended for use on all steel surfaces as a rust converter and paint primer, and as an etch primer or sealer. Protects against future rusting. Can be used on welds. Eliminates need to mechanically blast to white metal. Designed for use on water blasted surfaces that re-rust. Consult Geiger Enterprises, Inc., Corroseal Division for assistance in editing this section for specific applications.

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#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Rust converter and metal primer.

##### 1.2 RELATED SECTIONS

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Specifier Notes: Edit the following list as required for the project. List other sections with work directly related to the rust converter and metal primer.

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- A. Section 05120 - Structural Steel.
- B. Section 05210 - Steel Joists.
- C. Section 05300 - Metal Decking.
- D. Section 05500 - Metal Fabrications.
- E. Section 05700 - Ornamental Metal.
- F. Section 09800 - Special Coatings.
- G. Section 09870 - Coating Systems for Steel.
- H. Section 09900 - Painting.
- I. Section 13200 - Steel Storage Tanks.

### 1.3 REFERENCES

- A. ASTM D 66 - Flash Point by Tag Closed Tester.
- B. ASTM D 1475 - Density of Paint, Varnish, Lacquer, and Related Products.
- C. ASTM D 3960 - Volatile Organic Compound (VOC) Content of Paints and Related Coatings.

### 1.4 SUBMITTALS

- A. Comply with requirements of Section 01300 - Submittals.
- B. Product Data: Submit manufacturer's product data, including specifications and application instructions.

### 1.5 QUALITY ASSURANCE

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Specifier Notes: Describe requirements for a meeting to coordinate the application of the rust converter and metal primer and to sequence related work. Delete if only a small quantity of the rust converter and metal primer will be applied or if a meeting is not necessary.

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A. Pre-Application Meeting: Convene a pre-application meeting [2] [ ] weeks before the start of application of the rust converter and metal primer. Require attendance of parties directly affecting work of this section, including Contractor, Architect, applicator, and rust converter and metal primer manufacturer's representative. Review environmental requirements, materials, protection of adjacent work, surface preparation, application, topcoating, cleaning, and coordination with other work.

### 1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly indicating manufacturer and material.

B. Storage: Store materials indoors in an area protected from direct sunlight and damage and in accordance with manufacturer's instructions.

- 1. Storage Temperature: 38 degrees F to 105 degrees F.
- 2. Do not allow material to freeze.

C. Handling: Protect materials during handling and application to prevent damage.

### 1.7 ENVIRONMENTAL REQUIREMENTS

- A. Apply when steel and air temperatures are between 45 degrees F and 100 degrees F.
- B. Do not apply within 2 hours of expected rain.
- C. Do not apply until morning dew is gone.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. J. T. Geiger enterprises, Inc. (d.b.a. Corroseal), P.O. Box 788, Coupeville, Washington 98239, phone (800) 237-1573, fax (360) 678-1943

## 2.2 MATERIALS

A. Rust Converter and Metal Primer: Corrodeal Rust Converter and Copolymer Metal Primer. Waterbased rust converter (tannic acid) combined with an unpigmented, latex copolymer metal primer. Converter turns rust into a metallic barrier layer of black, non-rusting magnetite. Primer acts as a bonding agent for epoxy, enamel, acrylic, moisture cured polyurethane, and oil-based finishes.

1. Volatile Organic Compounds (VOC), ASTM D 3960: 60 grams per liter.
2. Total Dry Film Thickness: 2.5 mils minimum to 3.5 mils optimum.
3. Number of Coats: 1 to 3.
4. Coverage: Approximately 200 square feet per gallon (10 mil wet coat).
5. Number of Components: One.
6. Weight per Gallon, ASTM D 1475: 8.6 pounds.
7. Specific Gravity: 1.02.
8. pH: 3.0.
9. Flash Point, ASTM D 56: Over 200 degrees F.
10. Non-flammable.

## PART 3 EXECUTION

### 3.1 EXAMINATION

A. Inspect surfaces and adjacent areas where rust converter and metal primer will be applied. Notify the Architect of conditions that would adversely affect the application of the rust converter and metal primer. Do not proceed with application until unsatisfactory conditions are corrected.

### 3.2 PROTECTION

A. Protect adjacent work and surrounding areas from contact with rust converter and metal primer.

### 3.3 SURFACE PREPARATION

A. Prepare surfaces in accordance with manufacturer's instructions.

B. Remove all loose rust, loose mill scale, oil, grease, dirt, soil, salt, paint, acids, alkalines, and other deposits.

C. Clean to Surface Specifications:

1. SSPC-SP 1 Solvent Cleaning - Do not use hydrocarbon solvents
2. SSPC-SP 2 Hand Tool Cleaning
3. SSPC-SP 3 Power Tool Cleaning
4. SSPC-SP 7 Brush- Off Blast Cleaning
5. SSPC-SP 12 High & Ultra-High Pressure Water Jetting - WJ4
6. SSPC-TU 4 Field Methods for Retrieval and Analysis of Soluble Salts on Substrates
7. SSPC-VIS 2, Standard Method for Evaluating Degree of Rusting on Painted Steel Surfaces
8. ASTM-D4417 Indicating Oil or Water in Compressed Air

D. Removal of intact rust is not required. Anchor profile is required as original surface preparation, now rusted.

E. Remove standing water and sources of running water.

F. Apply final stage cleaner.

### **3.4 APPLICATION**

A. Apply rust converter and metal primer for conversion of rust and priming of metal in accordance with manufacturer's instructions.

B. Do not thin.

C. Do not use with zinc, zinc chromate, zinc phosphates, chromates, copper powder, magnesium borate, graphite, or lead pigments, pickled cold-rolled steel.

D. Do not use in direct contact with food.

### **3.5 TOPCOATING**

A. Rinse surface after converter is cured to remove surface tannins. Rinse may be omitted where follow-on coatings are oil based or moisture cure urethanes.

B. Apply topcoat after rust converter and metal primer is completely dry, minimum of 24 hours and maximum of 30 days after application.

C. Apply topcoat as specified in [Section 09800 - Special Coatings] [Section 09870 - Coating Systems for Steel] [Section 09900 - Painting].

### **3.6 CLEANING**

A. Remove and dispose of all temporary materials used to protect adjacent work and surrounding areas.

B. Immediately remove and clean rust converter and metal primer from surfaces not intended to receive the material. For equipment and personnel, use soap and water. For dried spatter, use lacquer thinner.

**END OF SECTION**