



# PRODUCT DATA

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## ***INHIBO RUST*** ***ENVIRONMENTALLY SAFE PRIMERS (E-S-P)*** **“WATER BASE”**

PRODUCT CODE: **118 – 03X**

PRODUCT DESCRIPTION: A fast drying environmentally safe, modified acrylic Rust Inhibitive Primer uniquely designed to provide maximum protection, excellent corrosion resistance for industrial and maintenance application, while being free of lead hazard.

INTENDED USE: Specifically designed to be used along with Inhibo Rust Environmentally Safe Enamels as a protective rust inhibitive system over interior and exterior, firm, non yielding new iron, steel aluminum, galvanized steel and other properly prepared, previously painted, ferrous substrates. Its unique quality, is its versatility to be finish coated with a variety of different interior or exterior alkyds, latexes, epoxies or urethane finishes.

**118 – 031**  
**Red Oxide Primer**

**118 – 032**  
**Grey Primer**

**118 – 036**  
**Wrought Iron White**

**118 – 037**  
**Wrought Iron Black**

### **SURFACE PREPARATION**

#### **WARNING!**

If you scrape, sand, or remove **Old Paint**, you may release **Lead Dust**. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-Approved Respirator to control Lead Exposure. Clean up carefully with a HEPA Vacuum and Wet Mop. Before you start, find out how to protect yourself and your family by contacting **The National Lead Information Hotline at 1-800-424-LEAD** or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

**ALL SURFACES:** Must be clean, dry and free of dust, dirt, oil, grease, wax or any contamination that would adversely affect the adhesion or performance of this coating. Remove all oil, dirt, and other contaminants by cleaning with a V.O.C. compliant commercial cleaner/degreaser. Rinse thoroughly and allow to dry.

**ALL MILDEWED SURFACES:** Existing mildew should be removed by washing the affected area with a 3:1 solution of water and chlorine bleach or a reliable commercial mildewcide. Keep applying until all discoloration is removed. Rinse thoroughly and allow surface to dry before recoating.

### **NEW SURFACES**

**NEW METAL SURFACES:** Prepare new metal surfaces as directed with all surfaces.

## 118 – 03X Inhibo Rust E–S–P continued . . . .

### NEW SURFACES continued . . . .

#### FERROUS, GALVANIZED SURFACES:

Galvanized steel surfaces can be variable substrates due to the changing process of the Galvanizing Industry and/or the age of the galvanizing. Etch all galvanized and ferrous metal surfaces with Simpson Coatings #111–055C DOD-P-15328 Pretreatment Vinyl Wash Primer, a two component system composed of 4 parts #111–055A and one part #111–055B, applied at .25 to .5 mils dry. Allow 30 minutes to 1 hour dry time to recoat with Inhibo Rust Red Oxide Primer #118–031 or Grey Primer #118-032. Dry time to recoat with finish coat is 16–24 hours.

**NOTE:** Pretreatment Vinyl Wash Primer is intended to be used as a surface treatment to increase maximum adhesion to the primer system. To insure best results, the Pretreatment must be recoated within 4 hours with Inhibo Rust Red Oxide Primer #118–031 or Grey Primer #118–032 as soon as the material is sufficiently dry as directed. Please consult your local Air Quality Management District for clarification and guidance.

### PREVIOUSLY COATED SURFACES

#### ALL PREVIOUSLY COATED SURFACES:

Clean thoroughly as directed for all surfaces. Remove all loose peeling paint and chalk oxidation by sanding or pressure washing. Glossy surfaces should be dulled by sanding for maximum adhesion. Sand blasting or high-pressure water jet is recommended for the more severely deteriorated surfaces.

#### PREVIOUSLY COATED METAL SURFACES:

Remove loose rust, mill scale, chalky oxidation and deteriorated previous coating by wire brushing or coarse sandpaper. If rust is underneath the paint film, remove the paint finish until a ring of bright metal is exposed around the edges of rusted areas. Sand blasting or mechanical sanding is recommended for the more severely heavily contaminated surfaces.

### APPLICATION INFORMATION

Estimation of practical coverage of this product can be variable and is completely dependent on application technique i.e., (determine amount of wet film thickness application to achieve dry film thickness) and the porosity of the substrate.

Drying time and curing time can be adversely affected by extreme high/low substrate and atmospheric temperature variances, along with extreme high/low humidity. Apply when **air, product and surface temperatures** are between **60 °F – 90 °F**, the relative humidity is no greater than **85%**, and surface is at least **5 °F** above the dew point.

#### ALL METAL SURFACES:

Apply Simpson Coatings Inhibo Rust E–S–Primers with Professional Airless, Conventional or HVLP Spray Technology. Apply two coats @ 8.0 to 8.5 mils wet to achieve 2.0 to 2.5 mils dry film thickness, allowing an average of 12 to 16 hours drying time in between each coat. An average of 12 to 16 hours dry time must be allowed before applying the finish coat.

**THINNING/CLEAN – UP**

BRUSH/ROLLER:

**DO NOT THIN.**

AIR ATOMIZED/AIRLESS  
OR HVLP SPRAY:

Use one ½ pint per gallon of Simpson Coatings E-S-P/E-S-E #309-057 Spray Reducer. **EXCEPT AS RESTRICTED BY YOUR LOCAL AIR QUALITY MANAGEMENT DISTRICT.**

CLEAN – UP:

Use Soap and warm water.

**EQUIPMENT RECOMMENDATIONS**

BRUSH/ROLLER:

Use a high quality synthetic brush or roller cover (1/4" – 3/8"). Apply with full brush, avoid rebrushing or reworking material.

SPRAY:

Inhibo Rust E–S–Primers can be applied by Professional Airless, Conventional or HVLP Spray Technology.

# 118-03X Inhibo Rust Environmentally Safe Primers (E-S-P) "Water Base" Technical Data/Physical Properties

Resin Type: Modified Acrylic Latex  
 Solvents: Water, Alcohol & Glycol Ether  
 Coatings V.O.C. < 250 G/L

PRODUCT	ANALYSIS					PRODUCT COVERAGE				
	Pigment % by weight	% Solids by weight	% Solids by volume	Gloss	Viscosity	Wt. Per Gallon	Recommended Dry Film Thickness	Recommended Wet Film Thickness	Practical Coverage (assume 15% material loss)	Theoretical Coverage @ 1 mil D.F.T.
118-031 Red Oxide Primer	29.2-29.8%	46.6-48.6%	31.3-33.3%	Flat	80-85 KU	10.2-10.8	1.5-2.0 mils	3.0-4.0 mils	250-350 sq. ft.	300-400 sq. ft.
118-032 Grey Primer	30.8-31.4%	54.6-56.6%	40.8-42.8%	Flat	80-85 KU	10.5-11.1	1.5-2.0 mils	3.0-4.0 mils	250-350 sq. ft.	300-400 sq. ft.
118-036 Wrought Iron White	32.3-32.9%	52.5-54.5%	36.3-38.3%	Flat	80-85 KU	10.6-11.2	1.5-2.0 mils	3.0-4.0 mils	250-350 sq. ft.	300-400 sq. ft.
118-037 Wrought Iron Black	20.1-20.7%	38.8-40.8%	28.0-30.0%	Flat	80-85 KU	9.3-9.9	1.5-2.0 mils	3.0-4.0 mils	250-350 sq. ft.	300-400 sq. ft.

Dry times @ 77° F and 50% R.H.

Tack Free: 1-2 Hours

Handle: 2-4 Hours

Sand/Recoat: 12-16 Hours

Full Dry/Cure: 7-10 Days

Special instructions:

**Proposition 65 Warning**  
**WARNING: THIS PRODUCTS CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

**TECHNICAL SERVICE:** Technical Services are available through Simpson Coatings Technical Service Support at 1-800-877-5897

LIMITED WARRANTY: The statements on this bulletin product label, or by any of our agents concerning these materials are given for information only. They are believed to be true and accurate and intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control. The Simpson Coatings Group does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Simpson Coatings quality control standards. Any liability whatsoever of Simpson Coatings Group