



# PRODUCT DATA

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## **INHIBO RUST ENVIRONMENTALLY SAFE ENAMELS "WATER BASE"**

**PRODUCT CODE:** 118-XXX

**PRODUCT DESCRIPTION:** Inhibo Rust Environmentally Safe Enamels (E-S-E) are waterborne alkyd modified acrylics that possess all the performance characteristics of a heavy-duty solvent base Industrial Enamel, but in a unique water medium. Inhibo Rust (E-S-E) Acrylic Enamel are fast drying for minimal down time. It has low odor, suitable for application in those areas where solvent odors cannot be tolerated. Additionally, Inhibo Rust (E-S-E) has excellent gloss retention for a brighter, durable, protective coating which is resistant to the adverse effects of chemicals, fumes, chalking and coating deterioration.

**PRODUCT USE:** Inhibo Rust Environmentally Safe Enamels (E-S-E) are formulated as a protective coating, with decorative value for **Interior and Exterior Wood Finish, Textured Drywall, Concrete/Cement, Cinder Block, Vinyl and Fiber Board Substrates**. Used in combination with Simpson Coatings Inhibo Rust Environmentally Safe Rust Inhibitive Primers (E-S-P), these products produce an excellent Rust Inhibitive Protective System for all **metal surfaces** such as, **aluminum gutters, lawn and garden furniture, garage doors, metal doors/frames, wrought iron fences/gates, numerous metal hardware finishes, and all types of structural steel**.

Inhibo Rust E-S-Enamel Coatings are available in 19 ready mixed Gloss Colors, 11 of these colors meet the O.S.H.A. Safety Color Spectrum for marking physical hazards and cautionary zone needs.

### **O.S.H.A. SAFETY COLOR SPECTRUM**

118 - 011 Gloss White	118 - 012 Visibility Yellow	118 - 018 Equipment Orange	118 - 020 Toluidine Red
118 - 021 Safety Blue	118 - 022 Warning Blue	118 - 023 Light Green	118 - 024 John Deere Green
118 - 027 Gloss Black	118 - 030 Light Yellow	118 - 044 Purple	118 - 656 L/F John Deere Green

In addition, Inhibo Rust E-S-Enamel Finishes are available in three tint bases for tinting hundreds of colors to suit even the most discriminate taste.

118 - 705  
White Pastel Base

118 - 706  
Midtone Base

118 - 707  
Deeptone Base

## 118-XXX Inhibo Rust (E-S-E) continued . . . .

### RECOMMENDED PRIMERS

#### WOOD SURFACES:

INTERIOR SURFACES  
EXTERIOR SURFACES

Simpson Coatings (E-S-E) Primers #118 – 03X.  
Simpson Coatings (E-S-E) Primers #118 – 03X.

#### MASONRY/CONCRETE SURFACES:

Simpson Coatings Latex Block Filler #108 – 031.  
Simpson Coatings P.V.A. Sealer #108 – 011.  
Simpson Coatings Water Base, Epoxy Surface Conditioner #104 – 052C.

#### METAL SURFACES:

Simpson Coatings Red Oxide Primer #101-031.  
Simpson Coatings Gray Primer #101-032.  
Simpson Coatings Inhibo Rust Zinc Chromate Primer #101-034 (Yellow).  
Simpson Coatings Inhibo Rust Zinc Chromate Primer #101-035 (Green).  
Simpson Coatings Pretreatment Vinyl Wash Primer #111-055C DOD-P-15328.  
Simpson Coatings Rust Buster "Rust Converting Primer" #101-572.

### 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:

Surfaces must be clean, dry and free of dust, oil, grease, wax or any contaminants that would adversely affect the adhesion or performance of this coating. Remove all oils, dirt and other contaminants by cleaning with a non-V.O.C. regulated 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 WOOD SURFACES:

Where appropriate sand smooth with sandpaper. If mildew is present, remove as described above. All new wood surfaces should be primed. Exterior Wood should be primed with one coat of Simpson Coatings E-S-Primer #118-03X, Interior Wood should be primed with one coat of Simpson Coatings E-S-Primer #118-03X. Allow a 16 to 24 hour dry time before recoating with the finish coat.

#### NEW MASONRY, CONCRETE, TILT UP OR UNCOATED MASONRY SURFACES:

For uncoated masonry, concrete, and tilt up surfaces, fill with Simpson Coatings Latex Block Filler #108-031. Allow 16 to 24 hours dry time, followed by a seal coat of Simpson Coatings Water Base Epoxy Surface Conditioner #104-052C (**Must be recoated within 14 days**). Allow 16 to 24 hours to dry before recoating with finish product.

#### NOTE:

**All new substrates should cure for a minimum of 30 days before coating. Very dense, non porous, or chemically treated concrete may require over all etching, abrasive blasting or sanding to achieve proper coating adhesion.**

#### NEW METAL SURFACES:

Prepare new metal surfaces as directed with all surfaces. Apply one coat of Inhibo Rust E-S-P Red Oxide Primer #118-031 or Inhibo Rust E-S-P Gray Primer #118-032 @t 275 square feet per gallon allowing 16 to 24 hours dry time to recoat with the finish coat.

## 118-XXX Inhibo Rust (E-S-E) 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 0.25 to 0.5 mils dry, **allowing 30 minutes to 1 hour dry time** to recoat with Simpson Coatings Inhibo Rust Zinc Chromate Primer #101-034 (Yellow) or #101-035 (Green). Allow 16 to 24 hours dry time before recoating with Inhibo Rust E-S-E Finishes.

**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 Industrial Primer # 101-03X as soon as the material is sufficiently dry as directed.*

### 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. Sandblasting or high-pressure water jet is recommended for the more severe deteriorated surfaces.

#### PREVIOUSLY COATED WOOD SURFACES:

Clean thoroughly as directed above for all Previously Coated Surfaces. Spot prime all areas that have been sanded to bare wood with Simpson Coatings E-S-Primer #118-03X (exterior surfaces) or Simpson Coatings E-S-Primer #118-03X (interior surfaces). Allow a minimum of 16 to 24 hours dry time before recoating with the finish coat.

#### PREVIOUSLY COATED MASONRY, CONCRETE TILT UP SURFACES:

Scrape, wire brush, mechanical sanding or sandblast to remove loose, unsound concrete or any efflorescence, laitance (white powder or dust) from the surface. This should be followed by compressed air removal. Surfaces with mold or mildew should be cleaned with a commercial mildew remover and rinsed thoroughly with water. Remove any mold release oil with Simpson Coatings Xylol # 301-011. **EXCEPT AS RESTRICTED BY YOUR LOCAL AIR QUALITY MANAGEMENT DISTRICT.** Apply one seal coat of Simpson Coatings Water Base Epoxy Surface Conditioner #104-052C (**Must be recoated within 14 days**). Allow 16 to 24 hours dry time before recoating with the finish coat.

#### PREVIOUSLY COATED METAL SURFACES:

Remove loose rust, mill scale and deteriorated previous coating by wire brushing or coarse sand paper. If rust is underneath the paint film, remove the paint finish until a ring of bright metal is exposed around the edges of the rusted areas. Sandblasting or mechanical sanding is recommended for heavily contaminated surfaces. Prime coat with Simpson Coatings Rust Buster "Rust Converting Primer" #101-572, followed by one Prime Coat of Simpson Coatings Inhibo Rust E-S-P Red Oxide Primer #118-031 or Inhibo Rust E-S-P Gray Primer #118-032 @ 275 sq. ft. per gallon. Allow 16 to 24 hours dry time before recoating with the finish coat.

## 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 porosity of the substrate.

Drying time and curing time may 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.

### WOOD SURFACES:

Apply two coats of Inhibo Rust E-S-Enamel @ a 2.25 to 2.50 mils dry, allowing a minimum of 12 to 16 hours to recoat. For unusually porous, or heavily grained soft wood, a second coat may be desired. A 36 to 48 hour dry time should be allowed for light foot traffic. For heavy traffic or areas where equipment will be used, allow a full 7 to 10 day cure time.

### MASONRY, CONCRETE AND TILT UP SURFACES:

Apply two coats of Inhibo Rust E-S-Enamel @ a 2.25 to 2.50 mils dry letting the first coat dry for a minimum of 12 to 16 hours to recoat. A 36 to 48 hour dry time must be allowed for light foot traffic, full 7 to 10 day cure time is required for heavy equipment and traffic areas.

### ALL METAL SURFACES:

Apply two coats of Inhibo Rust E-S-Enamel at 2.25 to 2.50 mils dry, allowing 12 to 16 hours dry time in between each coat. A 36 to 48 hours dry time must be allowed for light foot traffic. For areas such as metal handrails, stairs, steps, or where heavy equipment is used, allow a full 7 to 10 day cure time.

## THINNING/CLEAN – UP

### BRUSH/ROLLER:

**DO NOT THIN.**

### AIR ATOMIZED/AIRLESS OR HVLP SPRAY:

Use approximately ½ pint per gallon of Simpson Coatings E-S-P/E-S-E Spray Reducer #309-057. **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-E) and Primers (E-S-P) can be applied by Professional Airless, Conventional or HVLP Spray Technology.

# 118-XXX Inhibo Rust Environmentally Safe Enamels "Water Base" Technical Data/Physical Properties

Resin Type: Modified Acrylic  
 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.
118-011 Gloss White	21.9-22.5%	43.3-45.3%	29.5-31.5%	80+	80-85 KU	9.9-10.5	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-012 Visibility Yellow	12.5-13.1%	38.0-40.0%	31.1-33.1%	80+	80-85 KU	8.7-9.3	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-016 Equipment Orange	16.0-16.6%	38.4-40.4%	26.3-28.3%	80+	80-85 KU	9.5-10.1	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-020 Tolidine Red	14.0-14.6%	42.2-44.2%	32.5-34.5%	80+	80-85 KU	9.2-9.8	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-021 Safety Blue	9.0-9.6%	39.2-41.2%	32.3-34.3%	80+	80-85 KU	8.7-9.3	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-022 Warning Blue	8.9-9.5%	39.1-41.1%	32.2-34.2%	80+	80-85 KU	8.7-9.3	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-023 Light Green	12.4-13.0%	37.4-39.4%	28.0-30.0%	80+	80-85 KU	9.1-9.7	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-024 John Deere Green	12.1-12.7%	38.3-40.3%	29.1-31.1%	80+	80-85 KU	9.0-9.6	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 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:

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

Proposition 65 Warning

TECHNICAL SERVICE: Technical Services are available through Simpson Coatings Technical Service Support at 1-800-877-5997

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 implied, concerning this material except that it conforms to Simpson Coatings quality control standards. Any liability whatsoever of Simpson Coatings Group

# 118-XXX Inhibo Rust Environmentally Safe Enamels "Water Base" Technical Data/Physical Properties

Resin Type: Modified Acrylic  
 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.
118-027 Gloss Black	2.3-2.9%	35.6-37.6%	31.6-33.6%	80+	80-85 KU	8.3-8.9	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-030 Light Yellow	11.7-12.3%	33.6-35.6%	26.9-28.9%	80+	80-85 KU	8.7-9.3	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-656 L/F John Deere Green	5.9-6.5%	36.4-38.4%	30.7-32.7%	80+	80-85 KU	8.5-9.1	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-705 White Pastel Base	22.3-22.9%	44.4-46.4%	30.5-32.5%	80+	80-85 KU	9.9-10.5	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-706 Midtone Base	12.4-13.0%	37.4-39.4%	28.0-30.0%	80+	80-85 KU	9.1-9.7	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 sq. ft.
118-707 Deepstone Base		32.6-34.6%	29.2-31.2%	80+	80-85 KU	8.2-8.8	2.0-2.5 mils	7.0-7.8 mils	250-300 sq. ft.	300-350 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:

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