



**PRODUCT DATA SHEET**  
**PROD. #1000 SERIES**  
**RUST SHIELD INDUSTRIAL**  
**POLYURETHANE GLOSS ENAMEL**



**PRODUCT DESCRIPTION**

**Rust Shield Industrial Polyurethane Gloss Enamel** is our premium rust preventative coating fortified with the finest polyurethane resins to offer excellent durability and performance. It provides superior coverage, a rich gloss finish that is abrasion and impact resistant, resistant to salt water spray, chemical cleanings, resists chipping and flaking, is fast drying and is easy to apply. Its offers excellent product versatility allowing for application to a variety of properly prepared interior and exterior metal substrates for architectural, commercial and industrial applications. It is VOC Compliant, and is safe for application in Hospitals, Factories, Food Processing Plants, Schools, Government, Institutions, and at home. It is **"USDS Approved"** by the United States Department of Agriculture for application to surfaces where there is a possibility of **"Incidental Food Contact,"** and is available in OSHA approved safety colors for identification purposes.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES	VOC COMPLIANCE																														
<ul style="list-style-type: none"> <li>Urethane Fortified Formula</li> <li>Rich Gloss Finish</li> <li>Rust Inhibitive</li> <li>Excellent Hardness &amp; Durability</li> <li>Impact &amp; Abrasion Resistant</li> <li>Excellent Product Versatility</li> <li>VOC Compliant</li> <li>Easy To Apply</li> </ul>	<p><i>Suitable for the following properly prepared surfaces:</i>  <b>INTERIOR / EXTERIOR METAL</b></p> <table> <tr> <td>Doors</td> <td>Machinery</td> </tr> <tr> <td>Trim</td> <td>Furniture</td> </tr> <tr> <td>Appliances</td> <td>Ferrous Metal</td> </tr> <tr> <td>Piping</td> <td>Non-Ferrous Metal</td> </tr> <tr> <td>Tools</td> <td>Aluminum</td> </tr> <tr> <td>Equipment</td> <td>Galvanized Metal</td> </tr> </table> <p><b>NOTE: For Use On Metal Surfaces Only!</b>  <b>For Interior &amp; Exterior Use!</b></p>	Doors	Machinery	Trim	Furniture	Appliances	Ferrous Metal	Piping	Non-Ferrous Metal	Tools	Aluminum	Equipment	Galvanized Metal	<p><b>Product Quality:</b> Professional / Best  <b>Product Use:</b> Interior / Exterior  <b>Application:</b> Brush, Roller Cover, Airless Spray  <b>Product System:</b> Solvent-Based  <b>Finish:</b> Gloss</p>	<table> <tr> <td><b>AIM</b></td> <td>Yes</td> </tr> <tr> <td><b>OTC</b></td> <td>Yes</td> </tr> <tr> <td><b>CARB</b></td> <td>No</td> </tr> <tr> <td><b>SCAQMD</b></td> <td>No</td> </tr> <tr> <td><b>MPI #</b></td> <td>No</td> </tr> <tr> <td><b>LEED® 09CI</b></td> <td>No</td> </tr> <tr> <td><b>LEED® 09NC</b></td> <td>No</td> </tr> <tr> <td><b>LEED® 09CS</b></td> <td>No</td> </tr> <tr> <td><b>LEED® H</b></td> <td>No</td> </tr> </table>	<b>AIM</b>	Yes	<b>OTC</b>	Yes	<b>CARB</b>	No	<b>SCAQMD</b>	No	<b>MPI #</b>	No	<b>LEED® 09CI</b>	No	<b>LEED® 09NC</b>	No	<b>LEED® 09CS</b>	No	<b>LEED® H</b>	No
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**SURFACE PREPARATION**

**General:** The entire surface area to be painted should be clean, dry, sound, and free from dirt, grease, oils, waxes, mildew and any other surface contaminants that may adversely affect the performance of this coating material as follows;

- Previously Painted Metal:** Remove any loose, scaling, cracked or peeling paint from previously painted surfaces by hand scraping, sanding, wire brushing or by power tool cleaning methods, such as electric sanders or grinders, etc.
- Sand all rough paint edges smooth to adjacent surface area. Sand all glossy surfaces effectively to dull existing finish.
- Bare Metal:** Surfaces should be solvent cleaned in accordance with SSPC-SP 1 specifications pertaining to surface preparation for the solvent cleaning of steel and metal surfaces for removing all visible oil, grease, soil, drawing and cutting compounds and other soluble contaminants from the surface.
- Remove any loose rust, mill scale, rust deposits, or white rust by hand scraping, sanding, or wire brush cleaning in accordance with SSPC-SP 2 specifications pertaining to hand tool cleaning, or SSPC-SP 3 specifications pertaining to power tool cleaning of loose, non-adherent material on metal surfaces as set forth by the Steel Structures Painting Council.
- Repair/replace any damaged and/or delaminated surface areas with the proper building materials.
- Prime and/or spot prime all bare or new metal surface areas with Manufacturer's properly specified primer/sealer compatible to the surface type and before application of finish coating.

**Mildew** - Surface areas affected by mildew should be treated with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.

- 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 you can protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-Lead, or log onto [www.epa.gov/lead](http://www.epa.gov/lead).

**PRODUCT ANALYSIS DATA**

**PIGMENT: 33.67%**

**VEHICLE: 66.33%**

*MORE DETAILED PRODUCT ANALYSIS DATA IS AVAILABLE UPON REQUEST.*

**TECHNICAL DATA**

- COLORS:** Whites, Tint Bases & 10 Stock Colors  
 1000 White                      1001 Tint Base  
 1002 Deep Base                1003-A Accent Base
- TINTING:** Universal & Industrial Colorants
- VEHICLE TYPE:** Alkyd/Urethane
- VISCOSITY:** 83 KU ± 2
- GLOSS @ 60°:** Gloss / 80 units ± 2
- FLASH POINT:** 107° F
- VOC:** Not to Exceed 400 g/l – 3.36 lb/gal  
 (Meets AIM & OTC Standards)
- SOLIDS:** By Volume: 51.92% ± 2%  
 By Weight: 68.78% ± 2%
- COVERAGE:** 300 – 400 Sq. Ft. / Gal.  
 (Depending on Application & Surface Porosity.)
- MIL FILM:** Estimated @ 350 Sq. Ft. / Gal.  
 Wet: 4.6 mils                      Dry: 2.4 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)  
 To Touch: 2 – 4 Hours  
 Recoat: 6 – 8 Hours, or after overnight dry.
- CLEAN UP:** Mineral Spirits
- THINNING:** DO NOT THIN!

## RECOMMENDED PRIMER COATINGS

The following Richard's products are recommended primer coatings for this finish coating material. However, recommended Richard's primer coatings are not limited to the products listed below;

- **Ferrous or Non-Ferrous:**
  - 1015, Rust Shield Red Oxide Rust Inhibitive Metal Primer
  - 1018, Rust Shield Rust Inhibitive White Metal Primer
  - 1120, Industrial Coatings White Universal Primer
  - 2215 / 2220, Industrial Epoxy Gray / White Primers
- **Galvanized or Zinc Coated Metal:**
  - 7-44, PPS 100% Acrylic Universal Primer/Sealer
  - 1017, Rust Shield Zinc Chromate Metal Primer
  - 1215 / 1220 Rust Shield II Acrylic DTM Gray / White Metal Primers
- **Previously Painted Surfaces:**
  - Self-Priming

## APPLICATION EQUIPMENT

- **Brush Application:** Apply using quality nylon, polyester or combination nylon/polyester, or a quality natural china bristle brush.
- **Roller Application:** Apply using a smooth - medium nap synthetic, lamb's wool or mohair roller cover, depending on texture or surface porosity.
- **Spray Application:**
  - **Pump:** Gas or Electric Airless Sprayer
  - **Pressure:** Minimum 1500 – 2000 PSI
  - **Tip:** 0.013 – 0.015 Reversible
  - **Hose:** ¼ inch (6.3 mm) - ⅜ inch (10 mm)

## PACKAGING & WEIGHT PER GALLON

- **Packaging:**

Quarts – 6/case	Gallons – 4/case
2 Gallons – N/A	5 Gallons - Each
- **Weight Per Gallon:** 10.08 lbs.

## CLEAN UP & THINNING INSTRUCTIONS

**Clean Up:** Clean up any minor spills and spatters immediately with **Mineral Spirits**, as well as all painting tools and airless equipment. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state and federal regulations.

**Thinning:** Stir thoroughly and apply as it comes from the container. Thinning is not necessary. However, if thinning is required, you may add **Mineral Spirits**.

## WARRANTY & LIMITATIONS

The technical information contained herein is accurate to the best of our knowledge. All warranties are excluded, whether expressed or implied, by operation of law or otherwise, including all implied warranties of merchantability or fitness for a particular purpose. Seller shall not be liable, directly or indirectly, under any circumstances for consequential, incidental, special or any other type of damages arising or resulting for any reason under the sale, handling, or use of goods sold. Seller's liability hereunder, and buyer's exclusive remedy hereunder, for negligence or any other reason, is expressly limited to reimbursement of the purchase price of the materials sold after proof of purchase is provided to the seller. Notice of any alleged failure or defect in the material must be given to the seller in writing by certified U.S. mail within 15 days of noticing the problem. Failure to give the required notice within the time provided constitutes a waiver of any claim. The Manufacturer is not responsible for any misrepresentation made by the Dealer.

REV 05-14

## PRODUCT APPLICATION – General

**Rust Shield Industrial Polyurethane Gloss Enamel** may be easily applied with a quality brush, roller cover, or airless spray equipment as follows;

- Stir thoroughly in a spiral up and down motion before and during application to keep product completely mixed.
- For best results, it is recommended to apply two (2) finish coats.
- To assure color uniformity always intermix multiple containers of custom tinted and stock colors. Apply a small test sample to verify color.
- Always paint to a natural break in the surface, such as a corner or edge.
- When applying by brush, apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting trim.
- When applying by roller cover, apply an even and generous coat in a “W” or crisscross motion, avoiding any excessive respreading or reworking.
- When applying by airless spray equipment use a unit with a minimum of 2000 psi of pressure, with a 0.013 – 0.015 fluid spray tip.
- During spray application, it is recommended to back-roll the surface area to ensure proper adhesion, an even coat application.
- Maintain a wet edge during application by brushing, rolling or spraying into previously applied coating area.
- Apply when surface and ambient temperatures are above 55° F and below 90° F.
- Avoid exterior paint application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint.

## PRODUCT LIMITATIONS

- For use on metal surfaces only.
- Not for use in corrosive or chemical environments.
- Not for use in areas subject to intense heat.
- Not for use on below grade substrates.

## PRECAUTIONARY & SAFETY INFORMATION

**CAUTIONS: COMBUSTIBLE! KEEP OUT OF REACH OF CHILDREN!** Keep away from heat, sparks and open flames. **INSURE PROPER CROSS-VENTILATION UNTIL COATING HAS DRIED!** Where ventilation is inadequate, use a suitable respirator. Turn off main gas valve until after coating has dried, then have pilot lights re-lighted by a responsible person. Avoid prolonged contact with skin and breathing of vapors and/or spray mists. When spraying this material, use an **OSHA** approved cartridge respirator. Use chemical safety glasses, goggles, or a face shield for proper eye protection. Wash thoroughly after handling and before eating or smoking. Close container after each use. **DO NOT TAKE INTERNALLY!**

**FIRST AID:** In case of skin contact, wash thoroughly with plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes and get medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting, get medical attention immediately.

**NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents herein may be harmful or fatal.

**KEEP OUT OF REACH OF CHILDREN!**