



**PRODUCT DATA SHEET**  
**PROD. #SR-1398 - GRAY**  
**RUST SHIELD**  
**SHOP COAT METAL PRIMER**



**PRODUCT DESCRIPTION**

Richard's Rust Shield Shop Coat Metal Primer is a professional quality rust preventative metal primer formulated for shop environments where bulk usage is required. It provides superior corrosion protection and permits faster handling of in-shop or field applied ferrous metal surfaces, such as steel or iron. It is designed to provide superior corrosion protection during project fabrication and storage, insuring complete wrapping of the coating film to the metal surface. It is easy to apply, spreads evenly, resists sagging, and has excellent adhesion qualities, resists oils, grease, salt air, mild chemical fumes and alkali products.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES	VOC COMPLIANCE												
<ul style="list-style-type: none"> <li>Rust Preventative</li> <li>Excellent Coverage</li> <li>Corrosion Resistant</li> <li>Spreads Evenly</li> <li>Grease &amp; Oil Resistant</li> <li>Excellent Adhesion</li> <li>Abrasion Resistant</li> <li>Lead Free</li> <li>Easy To Apply</li> </ul>	<p><i>Suitable for the following properly prepared surfaces;</i></p> <p><b>INTERIOR / EXTERIOR - METAL</b></p> <table> <tr> <td>Iron</td> <td>Storage Tanks</td> </tr> <tr> <td>Structural Steel</td> <td>Trash Dumpsters</td> </tr> <tr> <td>Piping &amp; Pipelines</td> <td>Tanker Cars</td> </tr> <tr> <td>Machinery</td> <td>Ferrous Metal</td> </tr> <tr> <td>Farm Equipment</td> <td>Appliances</td> </tr> <tr> <td>Metal Doors &amp; Railings</td> <td>Cabinets</td> </tr> </table> <p><b>FOR USE ON METAL SURFACES ONLY!</b></p>	Iron	Storage Tanks	Structural Steel	Trash Dumpsters	Piping & Pipelines	Tanker Cars	Machinery	Ferrous Metal	Farm Equipment	Appliances	Metal Doors & Railings	Cabinets	<p><b>Product Quality:</b> Industrial / Professional</p> <p><b>Product Use:</b> Interior / Exterior</p> <p><b>Application:</b> Brush, Roller Cover &amp; Airless Spray</p> <p><b>Product System:</b> Solvent-Based</p> <p><b>Finish:</b> Flat</p>	<p><b>AIM</b> Yes</p> <p><b>OTC</b> Yes</p> <p><b>CARB</b> No</p> <p><b>SCAQMD</b> No</p> <p><b>MPI #</b> No</p> <p><b>LEED® 09CI</b> No</p> <p><b>LEED® 09NC</b> No</p> <p><b>LEED® 09CS</b> No</p> <p><b>LEED® H</b> No</p>
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Metal Doors & Railings	Cabinets														

**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.

- 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.

**Mildew** - Treat surface areas affected by mildew 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: 58.22%**

**VEHICLE: 41.78%**

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

**TECHNICAL DATA**

- COLORS:** Gray
- TINTING:** Not Recommended
- VEHICLE TYPE:** Alkyd
- VISCOSITY:** 83 KU ± 2
- GLOSS @ 60°:** Flat / 0 – 5 units
- FLASH POINT:** 103° F
- VOC:** Not to Exceed 400 g/l – 3.36 lb/gal (Meets AIM & OTC Standards)
- SOLIDS:** By Volume: 46.43% ± 2%  
By Weight: 69.77% ± 2%
- COVERAGE:** 300 – 400 Sq. Ft. / Gal. (Coverage will vary significantly depending on application method, surface porosity and condition of the surface.)
- MIL FILM:** Estimated @ 350 Sq. Ft. / Gal.  
**Wet:** 4.6 mils      **Dry:** 2.1 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)  
To Touch: 2 – 4 Hours  
Recoat: 6 – 8 Hours, or after overnight. (Dry times listed may vary according to relative humidity, temperature, film build, color and air movement.)
- CLEAN UP:** Mineral Spirits
- THINNING:** Mineral Spirits

## RECOMMENDED FINISH COATINGS

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

- **FLAT FINISHES**
  - 100 Series, Signature Series 100% Acrylic Flat House Paint
  - 650 Series, Rich Shield 100% Acrylic Flat House Paint
- **LO-LUSTER/EGGSHELL FINISHES**
  - 130 Series, Signature Series 100% Acrylic Lo-Lustre House Paint
  - 370 Series, Rich Classic Eggshell Acrylic House Paint
- **SATIN FINISHES**
  - 400 Series, Signature Series 100% Acrylic Satin House & Trim
  - 640 Series, Rich Shield 100% Acrylic Satin House & Trim
- **SEMI-GLOSS FINISHES**
  - 680 Series, Rich Shield 100% Acrylic Semi-Gloss Enamel
  - 750 Series, Signature Series 100% Acrylic Semi-Gloss Enamel
  - 1250 Series, Rust Shield II 100% Acrylic Industrial DTM Semi-Gloss Enamel
- **GLOSS FINISHES**
  - 200 Series, Signature Series 100% Acrylic Gloss House & Trim
  - 1000 Series, Rust Shield Polyurethane Industrial Gloss Enamel
  - 1200 Series, Rust Shield II 100% Acrylic Industrial DTM Gloss Enamel

## APPLICATION EQUIPMENT

- **Brush Application:** Apply using a quality nylon, polyester or combination nylon/polyester, or a quality natural china bristle brush.
- **Roller Application:** Apply using a small - 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:** 0.015 – 0.019 Reversible
  - **Hose:** ¼ inch (6.3 mm) - ⅜ inch (10 mm)

## PACKAGING & WEIGHT PER GALLON

- **Packaging:** Quarts – N/A                      Gallons – 4/case  
2 Gallons – N/A                                5 Gallons - Each
- **Weight per Gallon:** 12.02 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 10-14

## PRODUCT APPLICATION – General

Richard's Rust Shield Shop Coat Metal Primer 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 using a brush or roller cover to effectively work primer coating into surface pores.
- 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 0.015 – 0.019 fluid spray tip.
- During spray application, it is recommended to back-roll the surface area to ensure proper adhesion, an even coat application, and to work primer coating into surface pores.
- 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

- Not for use in corrosive or chemical environments.
- Not for use in areas subject to intense heat.
- Not for use on below grade substrates or immersion services.
- Not for use on galvanized or zinc coated surfaces.
- Not for use under 2-Part Epoxy or 2-Part Urethane Coatings.
- Not for use as the sole Primer-Finish coating for exterior exposure of Structural Steel.

## 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!**