



# PRODUCT DATA SHEET

PROD. #4450

## FLOOR-TITE WATERBORNE EPOXY-ESTER BONDING SURFACER



### PRODUCT DESCRIPTION

Richard's Floor-Tite Waterborne Epoxy-Ester Bonding Surfacers is a specially formulated waterborne epoxy-ester sealer/surfacer specifically designed for application directly to porous and some non-porous concrete substrates, such as garage and carport floors. It is designed to penetrate, reinforce, and provide a more compatible surface for the application of various types of floor and architectural coatings without the need to acid wash the surface. Easy to apply, its special formulation promotes superior adhesion properties, dries fast, excellent product versatility for application to various other surface types, and cleans up with warm soap and water.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES	VOC COMPLIANCE																												
<ul style="list-style-type: none"> <li>Waterborne Epoxy-Ester</li> <li>Penetrates Surface</li> <li>Reinforces Surface</li> <li>Improves Adhesion</li> <li>Dries Fast</li> <li>Soap &amp; Water Clean-Up</li> <li>Product Versatility</li> <li>Easy To Apply</li> </ul>	<p>Suitable for the following properly prepared surfaces;</p> <p><b>INTERIOR / EXTERIOR</b></p> <table> <tr> <td>Garage Floors</td> <td>Balconies</td> </tr> <tr> <td>Carport Floors</td> <td>Poured Concrete</td> </tr> <tr> <td>Patios</td> <td>Loading Docks</td> </tr> <tr> <td>Catwalks</td> <td>Painted Surfaces</td> </tr> <tr> <td>Concrete Floors</td> <td>Etc.</td> </tr> </table> <p><b>Great For Both Interior &amp; Exterior Surfaces!</b></p>	Garage Floors	Balconies	Carport Floors	Poured Concrete	Patios	Loading Docks	Catwalks	Painted Surfaces	Concrete Floors	Etc.	<p><b>Product Quality:</b> Premium / Best</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> Water-Based</p> <p><b>Sheen:</b> Flat</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, curing and release agents, mildew and any other surface contaminants that may adversely affect the performance of this coating material.

- All new concrete and masonry surfaces should be allowed to properly dry/cure for approximately 30 – 45 days, in accordance with industry standards.
- The surface area to be painted should be porous.
- Remove any loose scale, chalked, cracked and peeling paint from previously painted substrates by thoroughly pressure washing the entire surface area. For best results, it is recommended to use a unit with a minimum of 2000, psi of water pressure.
- More difficult areas should be hand scraped, sanded, wire brushed and/or power tool cleaned.
- For best results, it is recommended to use a unit with a minimum of 2000, psi of water pressure. More difficult areas should be hand scraped, sanded, wire brushed and/or power tool cleaned.
- Sand smooth all rough paint edges to adjacent substrate.
- Glossy surfaces should be properly dulled.
- Repair/replace all damaged, delaminated and/or surface imperfections with the proper patching compounds or building materials

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

❖ **NOTE: Although Floor-Tite Is Formulated To Be Applied Directly To Smooth, Non-Porous Substrates, It Is Recommended To Acid Wash Highly Slick Masonry Substrates With A Solution Of "Muriatic Acid" And Water To Maximize The Adhesion Qualities That This Product Provides!**

- 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: 11.80%**

**VEHICLE: 88.20%**

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

### TECHNICAL DATA

- COLORS:** Clear Transparent
- TINTING:** Not Recommended
- VEHICLE TYPE:** Waterborne Epoxy-Ester
- VISCOSITY:** 71 KU ± 1
- GLOSS @ 60°:** Flat / 0 - 5 units
- FLASH POINT:** N/A
- VOC:** Not to Exceed 350 g/l – 2.94 lb/gal (Meets AIM & OTC Standards)
- SOLIDS:** By Volume: 23.62% ± 2%  
By Weight: 30.80% ± 2%
- COVERAGE:** 300 – 500 Sq. Ft. / Gal.  
(Coverage will vary significantly depending on application method, surface porosity and condition of the surface.)
- MIL FILM:** Estimated @ 400 Sq. Ft. / Gal.  
**Wet:** 4.0 mils      **Dry:** 0.9 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)  
To Touch: 1 – 2 Hours  
Recoat: 4 – 6 Hours  
(Dry times listed may vary according to relative humidity, temperature, film build, color and air movement.)
- CLEAN UP:** Warm Soapy Water
- THINNING:** Do Not Thin

## 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, Signature Series 100% Acrylic Flat House Paint
- 650, Rich Shield Prem. 100% Acrylic Flat House Paint

### • LO-LUSTER/EGGSHELL FINISHES

- 130, Signature Series 100% Acrylic Lo-Lustre House Paint
- 630, Rich Wall Premium Acrylic Eggshell Enamel

### • SATIN FINISHES

- 4200, Deck Guard Pool, Patio & Deck Paint
- 4500, 100% Acrylic Driveway & Floor Coating
- 4600, Step Guard Anti-Slip Textured Floor Coating

### • SEMI-GLOSS FINISHES

- 680, Rich Shield Premium 100% Acrylic Semi-Gloss Enamel
- 750, Signature Series 100% Acrylic Semi-Gloss Enamel
- 4000, Premium Alkyd Semi-Gloss Enamel

### • GLOSS FINISHES

- 200, Signature Series 100% Acrylic Gloss House & Trim
- 660, Rich Shield Premium 100% Acrylic Gloss House & Trim
- 1000, Rust Shield Industrial Polyurethane Enamel

## APPLICATION EQUIPMENT

- **Brush Application:** Apply using a quality nylon, polyester, or combination nylon/polyester bristle brush.
- **Roller Application:** Apply using a 3/8" - 3/4" nap synthetic or lamb's wool roller cover, depending on the texture and surface porosity.
- **Spray Application:**
  - **Pump:** Gas or Electric Airless Sprayer
  - **Pressure:** Minimum 1500 – 2000 PSI
  - **Tip:** 0.013 – 0.017 Reversible
  - **Hose:** 1/4 inch (6.3 mm) - 3/8 inch (10 mm)

## PACKAGING & WEIGHT PER GALLON

- **Packaging:** Quarts – N/A                      Gallons – 4/case  
2 Gallons – N/A                                5 Gallons - Each
- **Weight per Gallon:** 9.00 lbs.

## CLEAN UP & THINNING INSTRUCTIONS

**Clean Up:** Clean up any minor spills and spatters immediately with warm soapy water, 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 clean water up to 1/2 pint per gallon.

## 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 08-14

## PRODUCT APPLICATION – General

Richard's Floor-Tite Waterborne Epoxy-Ester Bonding Surfacer may be easily applied with a quality brush, roller cover, or airless spray equipment as follows;

- For best results, it is recommended to apply by brush and/or roller cover to effectively work product into surface pores.
- Stir thoroughly in a spiral up and down motion before and during application to keep product completely mixed.
- 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 – 0.017 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.

## PRECAUTIONARY & SAFETY INFORMATION

**CAUTIONS:** Avoid prolonged contact with skin, and breathing of dust, vapors and/or spray mists. Causes eye irritation. **USE WITH ADEQUATE VENTILATION!** Ensure fresh air entry during application and drying. If you experience eye water, headache or dizziness, or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriately fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin and clothing. 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.

**KEEP OUT OF REACH OF CHILDREN!**