



# PRODUCT DATA SHEET

PROD. #512  
**SHIELD'S ALL**  
**CHATTAHOOCHEE EPOXY SEALER**



## PRODUCT DESCRIPTION

**Richard's Shield's All Chattahoochee Epoxy Sealer** is a durable single-component epoxy finish coating specially formulated to protect and restore the original lustre to Chattahoochee and River Rock stone surfaces. Its special epoxy formulation helps seal and glaze both mortar and epoxy set stone. It provides superior durability, excellent resistance to water penetration, stain resistance, alkali resistance, and is mar and scuff resistant. Because of its higher solids formula, it helps secure loose pebbles, stones or Chattahoochee rock to its cementitious substrate, resists discoloring, ultra-violet light rays, and is easy to apply.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES
<ul style="list-style-type: none"> <li>Single Component Epoxy Formula</li> <li>Rich Gloss Finish</li> <li>Excellent Durability</li> <li>Abrasion Resistant</li> <li>Moisture Resistant</li> <li>Seals &amp; Secures</li> <li>Easy To Use</li> <li>Product Versatility</li> </ul>	<p><i>Suitable for, but not limited to the following properly prepared surfaces:</i></p> <p><b>EXTERIOR</b></p> <ul style="list-style-type: none"> <li>Chattahoochee Rock</li> <li>Flagstone</li> <li>Stamped Concrete</li> <li>River Rock</li> <li>Brick Pavers</li> <li>Concrete Floors</li> <li>Exposed Aggregate</li> <li>Decorative Stone</li> </ul> <p><b>For Exterior Use Only!</b></p>	<p><b>Product Quality:</b> Premium Best</p> <p><b>Product Use:</b> Exterior</p> <p><b>Application:</b> Brush, Roller, Spray</p> <p><b>Product System:</b> Solvent-Based</p> <p><b>Sheen:</b> High Gloss</p> <p><b>MPI Standards:</b> No</p> <p><b>VOC Compliance:</b> AIM</p>

## SURFACE PREPARATION

**GENERAL:** The entire surface area to be painted should be clean, dry, sound, and free from dirt, grease, oils, waxes, mildew, form release agents, curing compounds, and any other surface contaminants that may adversely affect the performance of this coating material.

**NEW SURFACES:** **MORTAR-SET STONE:** Inspect all new or unpainted mortar-set to be sure that it is sound and not crumbling. All new mortar should be allowed up to 45 days to properly dry-cure before applying sealer. The surface should be tested for pH and alkali levels. Surface should not read higher than 8.5 – 9 level.

**EPOXY-SET STONE:** Inspect the surface to make sure there is no deterioration or crumbling of current epoxy or mortar. Thoroughly clean the surface, as stated above. Shield's All Chattahoochee Epoxy Sealer will not correct weak surface areas or moisture intrusion and will not re-bond loose stone.

**CONCRETE FLOORS:** To clean floor, scrub with detergent and rinse thoroughly with clean water. Remove powdery material from new, unpainted concrete by sweeping and rinsing with clean water. Dense, non-porous concrete surfaces must be properly acid etched with muriatic acid mixed with water, 3 parts water to 1 part acid. Apply acid solution to the surface using a plastic garden sprinkler can. Allow the solution to effervesce or boil on the surface until it stops, (approximately 10 – 15 minutes). Do not allow floor to dry prior to rinsing. Add acid solution to keep wet, if necessary. Neutralize floor with an alkaline solution of 1 cup of baking soda (or 8 oz. of ammonia) mixed with one gallon of water. This mixture will neutralize any unspent acid. Rinse the surface thoroughly with clean water. Check pH of rinse water with pH range paper. Rinse water should have a pH of 6 - 9. If pH is outside of this range, rinse again and re-check pH. Properly etched concrete should have a texture feeling similar to medium (180) grit sandpaper. Allow 24 - 48 hours to dry.

**SURFACE REPAIRS:** Repair/replace any damaged and/or delaminated surface areas with the properly recommended cementitious patching materials. Allow patching materials to dry thoroughly before application of paint coatings.

**MILDEW:** Surface areas affected by mildew should be treated with a commercial mildew removal and/or cleaner product following the 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).

## TECHNICAL DATA

- COLORS:** Clear Amber
- TINTING:** Not Recommended
- VEHICLE TYPE:** Epoxy Ester
- VISCOSITY:** 21 Sec. | #2 Zahn Cup
- GLOSS @ 60°:** High Gloss | 93 units ± 2
- FLASH POINT:** 40° F
- COATING VOC:** Not to Exceed 600 g/l – 5.04 lb/gal  
(Meets AIM Standards)
- SOLIDS BY VOLUME:** 24.29% ± 2%
- SOLIDS BY WEIGHT:** 30.43% ± 2%
- ESTIMATED COVERAGE:** 150 – 350 SFPG  
(Coverage will vary significantly depending on application method, surface porosity and condition of the surface.)
- RECOMMENDED MIL FILM:** (Estimated @ 200 SFPG)  
Wet: 8.0 mils      Dry: 1.9 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)  
To Touch: 1 - 2 hrs. | Recoat: 6 - 8 hrs. or overnight  
(Actual dry time may vary according to relative humidity, temperature, color, applied film build and air movement.)
- DRIES BY:** Oxidation / Solvent Evaporation
- CLEAN UP:** Mineral Spirits
- THINNING:** Not Recommended
- WEIGHT/GAL:** 7.00 lbs.
- SHELF LIFE:** 2 - 3 years unopened

- PACKAGING:**

<b>Quarts:</b> 6 / Case	<b>Gallons:</b> 4 / Case
<b>2 Gallons:</b> N/A	<b>5 Gallons:</b> Each

## RECOMMENDED PRIMER COATINGS

Shield's All Chattahoochee Epoxy Sealer is formulated to be self-sealing on properly prepared new and bare concrete, masonry and rock surfaces listed below;

- **Chattahoochee Rock, Pebble, & Stone:**
- Self-Priming
- **Masonry & Concrete:**
- 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 2000 PSI
  - **Tip:** 0.013 – 0.017 Reversible
  - **Hose:** ¼ inch (6.3 mm) - ¾ inch (10 mm)

## 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.

## 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 paint 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. **Do Not Thin!**

## PRECAUTIONARY & SAFETY INFORMATION

### KEEP OUT OF REACH OF CHILDREN!

**CAUTION: FLAMMABLE LIQUID AND VAPOR! CONTAINS VM&P NAPHTHA! VAPOR HARMFUL! HARMFUL OR FATAL IF SWALLOWED!** May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose, throat, eye and skin irritation. May be harmful if absorbed through skin. Keep away from heat, sparks and open flames. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Do not breathe dust vapors or spray mist. **USE ONLY WITH ADEQUATE VENTILATION!** Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eye, on skin or 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!** If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

**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 immediate attention immediately. If you experience difficulty in 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.

## LIMITED WARRANTY

Richard's Paint Mfg. Co., Inc. warrants our products to meet the application, appearance and performance properties stated on the label. This Limited Warranty shall not apply to any defect or damage resulting from improper surface preparation, structural defects, failure of a previous paint or improper application of the coating, as described in the directions on the label of this container. If this product is found not to perform as specified, Richard's Paint will, at its option and upon presentation of proof-of-purchase (the original receipt), either furnish an equivalent amount of new product or refund the original purchase price of this product to you. **ALL OTHER WARRANTIES ARE EXCLUDED BY RICHARD'S PAINT MFG. CO., INC., EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

## LIMITATIONS

Seller's liability for any reason is expressly limited to reimbursement of the purchase price of the materials sold after proof of purchase is provided to the seller. **THIS WARRANTY EXCLUDES (1) LABOR AND COSTS ASSOCIATED WITH LABOR FOR THE APPLICATION OR REMOVAL OF ANY PRODUCT, AND (2) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OR RESULTING FOR ANY REASON UNDER THE SALE, HANDLING, OR USE OF GOODS SOLD.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This Limited Warranty may not be transferred or assigned.

REV 03-18

## PRODUCT APPLICATION – General

Richard's Shield's All Chattahoochee Epoxy Sealer may be easily applied with a quality brush, roller, or spray equipment as follows;

- If adding a non-skid additive, stir thoroughly in a spiral up and down motion before and during application to keep product completely mixed. Surface to be painted should be completely dry for 24 hours before application.
- For best results, it is recommended to apply two (2) finish coats. Avoid heavy build-up of coating material.
- **Do Not Pour Sealer Onto Surface Area!** Always paint to a natural break in the surface, such as a corner or edge.
- **Brush Applications:** When applying by brush, use a quality nylon or polyester bristle brush, or a quality combination of both, and apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting trim.
- **Roller Application:** When applying by roller cover, use a quality smooth, medium or rough nap roller, depending on surface porosity, and apply an even and generous coat in a "W" or crisscross motion, avoiding any excessive respreading or reworking.
- **Spray Application:** 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.
- Rough or textured surfaces coated using spray equipment should be back-rolled to ensure a uniform film, even coverage and proper adhesion.
- 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. Do not apply when surface and air temperature is within 5° of dew point.
- 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.

**SPECIAL NOTE: FINISHED SURFACE MAY BECOME SLIPPERY WHEN WET. A NON-SKID ADDITIVE, SUCH AS RICHARD'S #SG-60, SKID GUARD MAY BE ADDED DURING APPLICATION TO PROMOTE A MORE ANTI-SLIP FINISH.**