



**PYTHON EPOXY MASTIC HIGH SOLIDS SURFACE TOLERANT COATING**

**PRODUCT FEATURES**

- High Performance
- Multi-Purpose
- Rust Inhibiting
- Chemical Resistance
- Excellent Adhesion
- Product Versatility

**PRODUCT USES**

INTERIOR/EXTERIOR	
Structural Steel	Masonry
Iron	Concrete
Galvanized Metal	Floors
Aluminum	Machinery
Pipes & Railings	Painted Surfaces

Great For Interior & Exterior Use!

**PERFORMANCE QUALITIES**

<b>Quality:</b>	Professional
<b>Use:</b>	Interior / Exterior
<b>Application:</b>	Brush, Roller, Spray
<b>System:</b>	Solvent-Based
<b>Sheen:</b>	Semi-Gloss
<b>VOC:</b>	AIM, CARB, LADCO/OTC I & II

**PRODUCT DESCRIPTION**

Richard's Python Epoxy Mastic is a high performance, multi-purpose, marine grade two-component industrial coating for use on steel, aluminum, galvanized steel and concrete in industrial and commercial environments. This high build, rust inhibiting, surface tolerant coating is an ideal choice for steel structures where abrasive blasting is not an option. A universal epoxy coating for vertical and horizontal surfaces, inside and outside. Use on floors for a high build wear-resistant coating or to fill rough and porous concrete block walls. Non-lifting over fully cured coatings, including aged alkyds. Excellent solvent and chemical resistance – resists splash and spillage of solvents, certain acids, alkalis, salts, fresh and salt water, oils, greases, and detergents.

**TECHNICAL DATA**

<b>COLORS:</b>	White & Tint Bases 2900-A, Part A   2900-B, Part B 2902DB-A, Part A 2903AB-A, Part A	<b>DRY TIME:</b>	<b>General - Tack Free:</b> 5 hrs.   <b>Recoat:</b> 12 hrs. - Min. <b>Max. Recoat Time - WB DTM Acrylic:</b> 5 Days <b>Max. Recoat Time - Polyamide Epoxy:</b> 6 Weeks <b>Max. Recoat Time - Aliphatic Urethane:</b> 2 Weeks <i>(Actual dry / cure times may vary according to relative humidity, temperature, color, applied film build and air movement.)</i>
<b>TINITING:</b>	844 Industrial Colorant	<b>ADHESION:</b>	Pass 5A - (ASTM D3359)
<b>VEHICLE:</b>	Polyamide-Polyamine	<b>HEAT RESISTANCE:</b>	<b>Wet:</b> 150° F   <b>Dry:</b> 250° F
<b>VISCOSITY:</b>	108 KU ± 2 – Mixed	<b>DRIES BY:</b>	Chemical Cure
<b>GLOSS @ 60°:</b>	Semi-Gloss   45 units	<b>THINNING:</b>	Not Normally Recommended <i>(see thinning instructions)</i>
<b>FLASH POINT:</b>	81° F	<b>CLEAN UP:</b>	2200 <sup>TH</sup> Epoxy Thinner or Xylene
<b>VOC:</b>	Not to exceed 250 g/l   (2.10lbs/gal)	<b>SHELF LIFE:</b>	1 – 2 year unopened
<b>SOLIDS:</b>	<b>By Volume:</b> 78.22% ± 2% <b>By Weight:</b> 87.21% ± 2%	<b>WEIGHT:</b>	12.42 lbs. (Mixed)
<b>ESTIMATED COVERAGE:</b>	160 - 320 SFPG @ 5.0 - 10.0 mils WFT	<b>PACKAGING:</b>	Quarts: 2 Qt. Kit Gallons: 2 Gal. Kit
<b>THEORETICAL COVERAGE:</b>	@ 320 SFPG - <b>Wet:</b> 5.0 mils   <b>Dry:</b> 4.0 mils @ 215 SFPG - <b>Wet:</b> 7.5 mils   <b>Dry:</b> 6.0 mils @ 160 SFPG - <b>Wet:</b> 10.0 mils   <b>Dry:</b> 8.0 mils <i>(Coverage will vary significantly depending on application method, surface porosity and condition of the surface.)</i>	<b>MIXING RATIO:</b>	1 : 1
		<b>INDUCTION:</b>	30 Minutes
		<b>POT LIFE:</b>	3 Hours (@ 77° F)

**CHEMICAL RESISTANCE**

<b>FRESH WATER:</b>	Excellent	<b>GASOLINE:</b>	Good
<b>SALT WATER:</b>	Excellent	<b>DIESEL:</b>	Good
<b>36% HCl ACID:</b>	Excellent	<b>ACIDIC SALT SOLUTION:</b>	Excellent
<b>24% NaOH:</b>	(Sodium Hydroxide) – Excellent	<b>ALKALINE SALT SOLUTION:</b>	Excellent
<b>ALKALIS:</b>	Good	<b>NEUTRAL SALT SOLUTION:</b>	Excellent
<b>SOLVENTS:</b>	Very Good		

## SURFACE PREPARATION

- **GENERAL:** All surfaces must be clean and free of oil, grease, dirt, mildew, loose rust, mill scale, form release agents, curing compounds, deteriorated and poorly adhered coatings, efflorescence and any other surface contaminants. Use Richard's 248 Shield's All Oil & Grease Remover to remove contaminants, petroleum-based oils, grease, vegetable and animal fats.
- **SURFACE REPAIRS:** Repair/replace any damaged and/or delaminated surface areas with the proper recommended patching and/or building materials. Allow all patching materials to dry thoroughly before application of paint coatings.
- **PAINTED SURFACES:** This coating may be applied as a tie coat over aged alkyd and thermoset coatings. Application of a test patch is recommended to ensure no lifting or wrinkling occurs. Sand smooth all rough paint edges to the adjacent surface area, and sand glossy surfaces to effectively dull and profile existing coatings.
- **FERROUS METALS – IRON & STEEL:** Remove all surface contaminants, oil and grease in accordance with SSPC-SP1. Remove loose rust and rust deposits in accordance with SSPC-SP 2 – Hand Tool Cleaning, or SSPC-SP 3 – Power Tool Cleaning specifications. For optimal performance, clean the surface by abrasive blasting to achieve SSPC-SP 6/NACE 3 – Commercial Blast Cleaning standards or better. Prime all bare metal within 8 hours before flash rusting occurs.
- **GALVANIZED STEEL & ALUMINUM:** Exterior galvanized and aluminum surfaces that have weathered for at least 12 months should be cleaned by pressure washing prior to application. If coating new unweathered aluminum or galvanized steel, particularly chromate treated or passivated metal surfaces, apply a spot test and check adhesion.
- **MASONRY & CONCRETE:** All new masonry surfaces must be allowed to dry/cure a minimum of 30 days before coating. Remove curing compounds, concrete hardeners and poorly adhered coatings by chemical or mechanical methods. An acceptable prepared concrete surface should be free of contaminants, laitance, loosely adhering concrete, and dust, and should provide a sound, uniform substrate suitable for the application of protective coating systems. Clean surface thoroughly to remove contaminants, oil, grease and embedded chemicals with Richard's #248, Shield's All Oil & Grease Remover.

Dense, non-porous concrete surfaces must be properly prepared to allow the coating to penetrate and adhere. Where acid etching will be employed, use 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.

---

**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 APPLICATION

Richard's Python Epoxy Mastic may be easily applied with a quality brush, roller, or spray equipment as follows;

- Mix equal volumes of Part A & B components as stated in the Mixing Instruction Section below. **MIX ONLY WHAT YOU INTEND TO USE!**
- Always paint to a natural break in the surface, such as a corner or edge.
- **Brush Applications:** When applying by brush, use a quality natural bristle brush, and apply a smooth and generous coat.
- **Roller Application:** When applying by roller cover, use a quality 3/8" to 1/2" nap cover with a phenolic core.
- **Spray Application:** When applying by airless spray equipment, use a unit with a minimum of 2100 - 2600 psi of pressure, with a 0.019 – 0.021 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 the 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.

## MIXING INSTRUCTIONS

This is a two-component material that requires equal parts of 2900-A and 2900-B. The mix ratio is 1:1. Mix each component separately before mixing Parts A and B together. Mix equal parts of 2900-A and 2900-B together in a container large enough to allow mechanical mixing. Mix using a Jiffy Mixer at low speed for 3 to 5 minutes. Scrape the sides of the container occasionally while mixing to ensure uniformity. Avoid mixing too fast. Do not whip air into the product.

**INDUCTION:** Allow mixed material to sit for 30 minutes prior to use.

**POT LIFE:** Useable Pot Life at 77° F, 3 hours. Higher temperatures will shorten the pot life.

## RECOMMENDED PRIMER COATINGS

Although formulated to be self-priming on sound and properly prepared painted surfaces, the following Richard's primers may be used as listed below;

- **HAND & POWER TOOL CLEANED STEEL:**
  - Self-Priming
  - 2800, Python Pre-Prime Epoxy
- **BLASTED CLEAN STEEL:**
  - Self-Priming
  - 1120, Industrial Universal Primer
  - 2215/2220, Industrial Coating Epoxy Gray/White Primers
- **GALVANIZED STEEL & ALUMINUM:**
  - Self-Priming
  - 1120, Industrial Coatings Universal Primer
  - 2215/2220, Industrial Coatings Epoxy Gray/White Primers
- **CONCRETE:**
  - Self-Priming
  - 2800, Python Pre-Prime Epoxy
- **PREVIOUSLY PAINTED SURFACES:**
  - Self-Priming

## PRODUCT LIMITATIONS

Epoxies will characteristically chalk and fade with exposure to sunlight. When gloss and color retention is important, overcoat with Richard's 2400 Acrylic Urethane Gloss.

Not for use in areas subject to intense heat.

## CLEAN UP & THINNING

**Clean Up:** Clean up any minor spills and spatters immediately with Xylene, or Richard's 2200<sup>TH</sup> Epoxy Thinner, 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. However, if thinning is required, you may add Xylene, or Richard's #2200<sup>TH</sup> Epoxy Thinner.

**DO NOT EXCEED 5% THINNING!**

## APPLICATION EQUIPMENT

**Brush Application:** Apply using a quality natural bristle brush.

**Roller Application:** Apply using a 3/8" - 1/2" nap cover with phenolic core.

**Spray Application:**

- **Pump:** Gas or Electric Airless Sprayer
- **Pressure:** Minimum 2100 – 2600 PSI
- **Tip:** 0.019 – 0.021 Reversible
- **Hose:** 3/8 inch (10 mm)

## RECOMMENDED FINISH COATINGS

When used as a primer or intermediate coat, the following Richard's finish coatings may be used as listed below;

- **SATIN FINISHES:**
  - 1240, EXCEL Rust Shield 100% Acrylic DTM Ind. Satin Enamel
  - 2340, EXCEL Pre-Catalyzed WB Satin Epoxy
- **SEMI-GLOSS FINISHES:**
  - 1250, EXCEL Rust Shield 100% Acrylic DTM Ind. S/G Enamel
  - 2350, EXCEL Pre-Catalyzed WB Semi-Gloss Epoxy
- **GLOSS FINISHES:**
  - 1200, EXCEL Rust Shield 100% Acrylic DTM Ind. Gloss Enamel
  - 2000, Industrial Shield WB Gloss Epoxy
  - 2200, Industrial Coatings Solvent Gloss Epoxy
  - 2400, Ind. Coatings Acrylic/Aliphatic Polyurethane Gloss Enamel

## PRECAUTIONARY & SAFETY INFORMATION

### KEEP OUT OF REACH OF CHILDREN!

**CAUTION: FLAMMABLE! CONTAINS XYLENE, NAPHTHA & GLYCOL ETHER! KEEP OUT OF REACH OF CHILDREN! HARMFUL OR FATAL IF SWALLOWED!** Keep away from heat, sparks and open flames. **INSURE PROPER CROSS-VENTILATION UNTIL COATING HAS DRIED!** Turn off main gas valve until after coating has dried, then have pilot lights re-lighted by a responsible person. Where ventilation is inadequate, use a suitable respirator. 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, **SEEK IMMEDIATE MEDICAL ATTENTION!** If affected by inhalation, move immediately to fresh air. If swallowed, **DO NOT INDUCE VOMITING, SEEK IMMEDIATE MEDICAL ATTENTION!**

**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 content 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 02-17