



PRODUCT DATA SHEET

PROD. #2000 SERIES-PARTS A & B

INDUSTRIAL SHIELD WATERBORNE GLOSS EPOXY COATING



PRODUCT DESCRIPTION

Industrial Shield Waterborne Gloss Epoxy Coating is a specially formulated high performance waterborne epoxy coating specifically designed for interior application in commercial, institutional and industrial environments where a tough and durable finish is required. Easy to apply, it provides excellent coverage, a rich and durable gloss finish that is abrasion resistant, chemical and stain resistant, and offers the same performance characteristics as solvent-based two component epoxy coatings. It is low odor, will not lift existing coatings, is VOC compliant and is ideal for use in Hospitals, Schools, Office Building, Factories Restaurants, etc.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES
<ul style="list-style-type: none"> Waterborne Epoxy Formula Rich Gloss Finish Excellent Coverage Excellent Durability Abrasion Resistant Chemical & Stain Resistant Excellent Product Versatility VOC Compliant Easy To Apply 	<p><i>Suitable for, but not limited to the following properly prepared surfaces;</i></p> <p>INTERIOR</p> <ul style="list-style-type: none"> Gypsum Drywall Plaster Masonry Concrete Concrete Floors Wood Doors & Trim Metal Doors & Casings Machinery Ferrous Metal Non-Ferrous Metal Aluminum Galvanized Metal <p>Great For Interior & Exterior Use!</p>	<p>Product Quality: Professional Best</p> <p>Product Use: Interior</p> <p>Application: Brush, Roller & Spray</p> <p>Product System: Water-Based</p> <p>Sheen: High Gloss</p> <p>VOC Compliance: AIM, LADCO/OTC</p> <p>Federal Standards: N/A</p> <p>MPI Standards: No</p> <p>LEEDS®: No</p>

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 SURFACES:** The entire surface area should be clean, as stated above. 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 to dull existing finish. Spot prime all bare surface areas with same primer material and allow to thoroughly dry before applying finish coatings.
- METAL SURFACES:** For metal surfaces, remove any loose rust, mill scale, rust deposits or white rust from metal surface in accordance with SSPC-SP 2 – Hand Tool Cleaning specifications, or by power tool cleaning methods, such as electric sanders or grinders according to SSPC-SP 3 – Power Tool Cleaning specifications, as set forth by the Steel Structures Painting Council. Previously painted surfaces, whereby the existing paint show signs of serious deterioration should be completely removed in accordance with SSPC-SP 6 – Commercial Blast Cleaning, or SSPC-SP 10 – Near White Blast Cleaning specifications.
- MASONRY / CONCRETE:** All new masonry surfaces should be allowed 30 – 90 days to properly dry/cure in accordance with industry standards. The surface should be tested for pH and alkali levels. Surface should not read higher than 8.5 – 9 level.
- MILDEW:** Surface areas affected by mildew should be treated with a commercial mildew removal and/or cleaner product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water, and allow a minimum of 24 hours to dry thoroughly.
- 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. Spot prime all new or bare surface areas with properly recommended Richard's primer material.

Special Note: All new concrete and masonry surfaces should be allowed to dry/cure for at least 30 days before painting. Prolonged exposure to direct sunlight will cause finish to fade & chalk. When applying to concrete floors, strong cleaning chemicals, brake fluid, and animal waste may cause staining or discoloration of paint film. Discoloration or staining will not diminish protective qualities or durability of coating. As with most epoxy coatings, some yellowing of the paint film may occur.

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.

TECHNICAL DATA

- COLORS:** White, Tint Bases & Clear Finish

2000 White	2001 Tint Base
2002 Deep Base	2004 Clear Finish
- TINTING:** Universal Colorants
- VEHICLE TYPE:** Waterborne Amine Adduct Epoxy
- VISCOSITY:** 70 KU ± 3
- GLOSS @ 60°:** High Gloss / 90 units +
- FLASH POINT:** N/A
- COATING VOC:** Not to Exceed 340 g/l – 2.86 lb/gal
(Meets AIM, LADCO & OTC Standards)
- SOLIDS:**

By Volume: 41.94%	By Weight: 53.79%
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- ESTIMATED COVERAGE:** 250 – 350 SFPG
(Coverage will vary significantly depending on application method, surface porosity and condition of the surface.)
- RECOMMENDED MIL FILM:** (Estimated @ 300 SFPG)

Wet: 5.3 mils	Dry: 2.2 mils
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- ESTIMATED DRY TIME:** (@ 70° F & 50% Relative Humidity)

To Touch: 6 hrs.	Recoat: 24 hrs.	Walk-On: 24 - 48hrs.
Full Cure: 7 Days		

 (Actual dry time may vary according to relative humidity, temperature, color, applied film build and air movement.)
- DRIES BY:** Coalescence / Solvent Evaporation
- CLEAN UP:** Warm Soap & Water
- THINNING:** Clean Water
- WEIGHT PER GALLON:** 10.43 lbs.
- SHELF LIFE:** Unopened - 2 - 3 years on average.
- PACKAGING:**

Quarts: N/A	Gallons: 3:1 Kit
2 Gallons: N/A	5 Gallon: N/A

RECOMMENDED PRIMER COATINGS

Although formulated to be self-priming on sound and properly prepared painted surfaces, the following Richard's primers are recommended for use on new or bare substrates;

- **Gypsum Drywall / Plaster:**
 - Holzout II 100% Acrylic Universal Primer/Sealer Stain Killer (26)
 - PPS Latex Primer/Sealer Enamel Undercoater (7-11)
 - PPS Universal Primer/Sealer Undercoater (7-22)
- **Wood:**
 - Holzout II 100% Acrylic Universal Primer/Sealer Stain Killer (26)
 - PPS Universal Primer/Sealer Undercoater (7-22)
- **Masonry**
 - Signature Series Waterborne Epoxy Ester Bonding Liquid (56)
 - Rich Flex Alkali Resistant Masonry Primer (1414)
- **Non-Ferrous, Aluminum & Galvanized Metal:**
 - Holzout II 100% Acrylic Universal Primer/Sealer Stain Killer (26)
 - Rust Shield II 100% Acrylic DTM Primers (1215 Gray & 1220 White)
- **Ferrous Metal:**
 - Rust Shield Metal Primers (1015 Red Oxide & 1018 White)
 - Industrial Coatings Universal Primer (1120)
- **Previously Painted Surfaces:**
 - Self-Priming

PRODUCT LIMITATIONS

- Not for exterior use.
- 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 service.

APPLICATION EQUIPMENT

- **Brush Application:** Apply using a quality nylon, polyester, or combination nylon/polyester bristle brush.
- **Roller Application:** Apply using a ¾" - 1¼" 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:** 0.015 – 0.017 Reversible
 - **Hose:** ¼ inch (6.3 mm) - ¾ inch (10 mm)

CLEAN UP & THINNING INSTRUCTIONS

Clean Up: Clean up any minor spills and splatters 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 ½ pint per gallon.

PRODUCT APPLICATION – General

Richard's Industrial Shield Waterborne Gloss Epoxy Coating may be easily applied with a quality brush, roller, or spray equipment as follows;

- After properly mixing Part A & B components, (see mixing instructions), 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 0.015 – 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.

MIXING INSTRUCTIONS

Industrial Shield Waterborne Gloss Epoxy Coating is formulated as a 3 - 1 ratio mix, (1 partially filled gallon and a full quart). Thoroughly stir part A and part B before combining. Pour the total contents of Part B into the Part A container. Be certain to incorporate all of Part B into Part A as this effects the color and hiding. **After thorough mixing, allow product to stand for 30 minutes (induction time) before starting to paint.** Mixed material has a 1 to 2 hour pot life after combining, and should be applied during this time period. When tinting, use 888 Universal Colorant. **Tint part A only.**

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!

WARRANTY

The Richard's Paint Mfg. Co., Inc. warrants our products to be free from manufacturing defects in accord with applicable Richard's Paint quality control procedures. Liability for product proven to be defective, if any is limited to the replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Richard's Paint Mfg. Co., Inc.

NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE 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

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