



# PRODUCT DATA SHEET

## PROD. #2404 CLEAR - PARTS A & B

### INDUSTRIAL COATINGS ACRYLIC/ALIPHATIC

### POLYURETHANE CLEAR ENAMEL GLOSS FINISH



#### PRODUCT DESCRIPTION

Richard's Industrial Coatings Acrylic/Aliphatic Polyurethane Gloss Enamel is a high performance industrial two (2) component aliphatic urethane clear gloss finish coating, specially formulated to provide outstanding durability and unsurpassed chemical resistance in a variety of interior and exterior commercial and industrial environments. Its special formulation provides excellent resistance to abrasion, industrial chemical cleaners, and impact abuse. It provides excellent protection against alkali attack, acids and salt water sprays, offers excellent hardness and durability, an excellent high gloss finish that is fade resistant, and its performance qualities that far exceed that of conventional type coatings such as, alkyd enamels or industrial air dry enamels.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES	VOC COMPLIANCE																														
<ul style="list-style-type: none"> <li>Acrylic/Aliphatic Polyurethane</li> <li>High Performance Quality</li> <li>Clear Gloss Finish</li> <li>Excellent Durability</li> <li>Chemical Resistant</li> <li>Alkali &amp; Acid Resistant</li> <li>Fade Resistant</li> <li>Impact Resistant</li> <li>Excellent Product Versatility</li> </ul>	<p><i>Suitable for, but not limited to the following properly prepared surfaces;</i></p> <p><b>INTERIOR / EXTERIOR</b></p> <table> <tr> <td>Gypsum Drywall</td> <td>Masonry</td> </tr> <tr> <td>Interior Wood Only</td> <td>Storage Tanks</td> </tr> <tr> <td>Doors</td> <td>Machinery</td> </tr> <tr> <td>Structural Steel</td> <td>Water Towers</td> </tr> <tr> <td>Iron</td> <td>Oil Refineries</td> </tr> <tr> <td>Fiberglass</td> <td>Farm Equipment</td> </tr> </table> <p><b>Great For Both Interior &amp; Exterior Use!</b></p>	Gypsum Drywall	Masonry	Interior Wood Only	Storage Tanks	Doors	Machinery	Structural Steel	Water Towers	Iron	Oil Refineries	Fiberglass	Farm Equipment	<p><b>Product Quality:</b> Industrial / Best</p> <p><b>Product Use:</b> Interior / Exterior</p> <p><b>Application:</b> Brush, Roller, &amp; Airless Spray</p> <p><b>Product System:</b> Solvent-Based</p> <p><b>Sheen:</b> High Gloss</p>	<table> <tr> <td><b>AIM</b></td> <td>Yes</td> </tr> <tr> <td><b>OTC</b></td> <td>No</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>	No	<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:** All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mil scale, form release agents, curing compounds, loose and flaking paint, rust, efflorescence and any other surface contaminants.

##### NEW SURFACES

- Concrete & Masonry** – All new masonry surfaces must be allowed to dry/cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance.
- Galvanized & Non-Ferrous Metals** – Solvent clean the surface in accordance with SSPC-SP1 Solvent Cleaning specifications for metal surfaces. If any oxidation (white rust) has formed, remove as per SSPC-SP2 Hand Tool Cleaning, SSPC-SP3 Power Tool Cleaning specifications for metal surfaces.
- Steel & Ferrous Metals** – Remove any loose rust, mills scale or rust deposits from metal surfaces by the methods described above, and in accordance with the Steel Structures Paint Council specifications SSPC-SP1 Solvent Cleaning, SSPC-SP2 Hand Tool Cleaning, SSPC-SP3 Power Tool Cleaning, and SSPC-SP6 Commercial Blast Cleaning methods for proper surface preparation of metal surfaces.

##### PREVIOUSLY PAINTED SURFACES

- Remove any loose scale, chalked, cracked or peeling paint from previously painted surfaces by hand scraping, sanding, wire brushing or by power tool cleaning methods, such as electric sanders, grinders, etc.
- Previously painted surfaces that are in poor condition should be completely stripped to reveal a more compatible surface for paint application. Sand smooth all rough paint edges to the adjacent surface area, and sand all glossy surfaces to effectively dull existing sheen levels.
- Repair/replace any damaged, deteriorated, and surface imperfections with the proper patching compounds or building materials. Prime all bare, new, chalked, and repaired surfaces with the properly specified Richard's primer.

**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.

- 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: 0.29%**

**VEHICLE: 99.71%**

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

#### TECHNICAL DATA

- COLORS:** Clear
- TINTING:** Not Recommended
- VEHICLE TYPE:** Acrylic/Aliphatic Urethane
- VISCOSITY:** 97 KU ± 3
- GLOSS @ 60°:** High Gloss / 85 + Units
- FLASH POINT:** 45° F
- VOC:** Not to Exceed 450 g/l – 3.78 lb/gal (Meets AIM Standards)
- SOLIDS:** By Volume: 52.37% ± 2%  
By Weight: 57.94% ± 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:** 2.1 mils
- DRY TIME:** (@ 70° F & 50% Relative Humidity)  
To Touch: 30 Minutes  
Recoat: 2 – 4 Hours  
Full Cure: 5 Days  
(Dry times listed may vary according to relative humidity, temperature, film build, color and air movement.)
- CLEAN UP:** 2400<sup>TH</sup> Brushing Thinner
- THINNING:** 2400<sup>TH</sup> Brushing Thinner;  
2420<sup>TH</sup> Spraying Thinner

## RECOMMENDED PRIMER COATINGS

Although formulated to be self-priming on properly prepared painted surfaces in good condition, the following Richard's products are recommended primer coatings for this finish coating material. However, recommended Richard's primer coatings are not limited to the products listed below;

- **New Gypsum Drywall / Plaster:**
  - Self-Priming
  - 7-44, PPS 100% Acrylic Universal Primer/Sealer Stain Killer
- **New Wood – Interior Only:**
  - Self-Priming
  - 7-44, PPS 100% Acrylic Universal Primer/Sealer Stain Killer
- **New Masonry:**
  - Self-Priming
  - 2215/2220, Ind. Ctgs. Solvent Epoxy Gray/White Primers
- **New Non-Ferrous, Aluminum & Galvanized Metal:**
  - Self-Priming
  - 1120, Industrial Coating Universal Primer
- **New Ferrous Metal:**
  - 1120, Industrial Coatings Universal Primer
  - 2215/220, Ind. Ctgs. Solvent Epoxy Gray/White Primers
- **Previously Painted Surfaces:**
  - 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 – 0.015 Reversible
  - **Hose:** ¼ inch (6.3 mm) - ¾ inch (10 mm)

## PRODUCT LIMITATIONS

- Not for use in areas subject to intense heat.
- Not for use on below grade substrates.

## PACKAGING & WEIGHT PER GALLON

- |                     |                 |                  |
|---------------------|-----------------|------------------|
| • <b>Packaging:</b> | Quarts – N/A    | Gallons – 4/case |
|                     | 2 Gallons – N/A | 5 Gallons – N/A  |
- **Weight per Gallon:** 8.61 lbs.

## CLEAN UP & THINNING INSTRUCTIONS

**Clean Up:** Clean up any minor spills and spatters immediately with 2400<sup>TH</sup> Brushing 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 2400<sup>TH</sup> Brushing Thinner, or 2420<sup>TH</sup> Spraying Thinner.

## 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 07-14

## PRODUCT APPLICATION – General

**Richard's Industrial Coatings Acrylic/Aliphatic Polyurethane Clear Gloss Enamel** may be easily applied with a quality brush, roller cover, or airless spray equipment as follows;

- Mix Parts A & B components as stated in the "Mixing Instructions" section below.
- 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 0.013 – 0.015 fluid spray tip.
- During spray application, it is recommended to back-roll the surface area to ensure proper adhesion, and an even coat application.
- 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.

## MIXING INSTRUCTIONS

**Industrial Coatings Acrylic/Aliphatic Polyurethane Clear Gloss Enamel** is formulated as a 4 to 1 ratio mix - example - 1 full gallon of part A mixed with 1 quart of part B.

Stir Part A component thoroughly with a paint paddle in a spiral up and down motion or with an electric mixer and pour into a separate container. Add Part B component stir thoroughly. **There Is No Induction Period!** Mixed material has a 6 to 8 hour pot life after combining, and should be applied during this time period. **Neither Component Will Work Unless Mixed With The Other!** Depending on application method, brush/roll or airless spray, you may reduce with either 2400<sup>TH</sup> Brushing Thinner or 2420<sup>TH</sup> Spraying Thinner.

## PRECAUTIONARY & SAFETY INFORMATION

**DANGER: FLAMMABLE! CONTAINS ETHERS, ESTER SOLVENTS, ACRYLIC RESIN & XYLOL! KEEP OUT OF REACH OF CHILDREN!** Keep away from heat, sparks and open flames. **INSURE PROPER CROSS-VENTILATION UNTIL COATING HAS DRIED!** Turn off main gas valve until after the 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 contents herein may be harmful or fatal.

**KEEP OUT OF REACH OF CHILDREN!**