



PRODUCT DATA SHEET

PROD. #46
THOR UNIVERSAL
WATERBORNE ACRYLIC PRIMER



PRODUCT DESCRIPTION

Richard's THOR Universal Waterborne Acrylic Primer is a workhorse formula that can be used for virtually any architectural surface, inside and outside. This versatile primer meets the needs of professional painters and do-it-yourselfers. It is easy to use, dries quickly, sands well when used on doors and trim, and provides good enamel holdout. May be used as a stain blocking primer for common surface stains. Bonds to aged oil base paint and other glossy surfaces. This primer is VOC compliant in all areas. FOR INTERIOR & EXTERIOR USE!

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES
<ul style="list-style-type: none">• WB Acrylic Formula• Superior Coverage• Excellent Stain Blocking• Bonds To Glossy Surfaces• Excellent Sanding Properties• VOC Compliant• Easy To Apply	<div>Suitable for, but not limited to the following properly prepared surfaces;</div> <div>INTERIOR/EXTERIOR</div> <div><div><ul style="list-style-type: none">• Gypsum Drywall• Plaster• Ceilings• Wood Trim & Doors• Wood Siding• Ceramic Tile</div><div><ul style="list-style-type: none">• Masonry• Cinder Block• Galvanized & Aluminum• Formica• Water & Fire Damage• Vinyl Siding</div></div> <div>Great For Interior & Exterior Use!</div>	<div>Product Quality: Premium / Best</div> <div>Product Use: Interior & Exterior</div> <div>Application: Brush, Roller, Airless Spray</div> <div>Product System: Water-Based</div> <div>Sheen: Flat</div> <div>MPI Standards: No</div> <div>VOC Compliance: AIM, LADCO, OTC Phase I & II, CARB, SCAQMD</div>

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:** 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.
- **SURFACE REPAIRS:** Repair/replace any damaged and/or delaminated surface areas with the proper recommended patching and/or building materials. Allow patching materials to dry thoroughly before application of paint coatings
- **GALVANIZED & NON-FERROUS METAL:** It is recommended to allow surface to weather for a minimum of twelve (12) months then solvent clean per SSPC-SP 1. If weathering is not possible, solvent clean per SSPC-SP 1, and apply a test patch to ensure good adhesion is achieved.
- **DRYWALL:** Insure that the surface is dust & chalk free, and primed with recommended primer.
- **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.
- **WOOD:** New wood surfaces should be painted before installation or immediately after. Do not allow the wood to weather. Weathered wood surfaces should be sanded to a fresh wood surface before coating. Remove any grade stamps or pencil marks from new wood by lightly sanding. Wood moisture content should be below 15% and wood surfaces that have a mill glaze should be sanded to allow for proper adhesion.
- **MILDEW:** Surface areas affected by mildew should be treated with a commercial mildew removal and/or wash 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.

TECHNICAL DATA

- **COLORS:** White
- **TINTING:** Universal Colorants - (Pastel Colors ONLY!)
- **VEHICLE TYPE:** Proprietary Acrylic
- **VISCOSITY:** 90 KU \pm 2
- **FINISH:** Flat | 0 – 5 units
- **FLASH POINT:** N/A
- **COATING VOC:** Not to Exceed 100 g/l – 0.83 lb/gal
(Meets AIM, OTC, CARB & SCAQMD Standards)
- **SOLIDS BY VOLUME:** 34.82% \pm 2%
- **SOLIDS BY WEIGHT:** 49.54% \pm 2%
- **ESTIMATED COVERAGE:** 300 – 400 SFPG
(Coverage will vary significantly depending on application method, surface porosity and condition of the surface.)
- **RECOMMENDED MIL FILM:** (Estimated @ 350 SFPG)
Wet: 4.6 mils Dry: 1.6 mils
- **ESTIMATED DRY TIME:** (@ 70° F & 50% Relative Humidity)
To Touch: 1 - 2 hrs. | Recoat: 4 - 6 hrs.
(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/GAL:** 10.8 lbs.
- **SHELF LIFE:** Unopened - 2 - 3 years on average.
- **PACKAGING:** Qt. – 6/cs. | Gal. – 4/cs. | 5 Gal. - Each

RECOMMENDED FINISH COATINGS

The following Richard's products are recommended finish coatings for this primer coating material, but are not limited to the products listed below;

• FLAT FINISHES

- 100, Signature Series 100% Acrylic Int./Ext. Flat House Paint
- 420, Signature Series Plus Int. Acrylic Ceramic Matte Wall Finish
- 650, Rich Shield Premium 100% Acrylic Flat House Paint

• LO-LUSTER/EGGSHELL FINISHES

- 130, Signature Series 100% Acrylic Lo-Luster House & Trim Paint
- 430, Signature Series Plus Int. Acrylic Ceramic Eggshell Finish
- 630, Rich Wall Premium Latex Eggshell Enamel

• SATIN FINISHES

- 400, Signature Series 100% Acrylic Satin House & Trim Paint
- 440, Signature Series Plus Int. Acrylic Ceramic Satin Finish
- 640, Rich Shield Premium 100% Acrylic Satin House & Trim Paint

• SEMI-GLOSS FINISHES

- 450, Signature Series Plus Int. Acrylic Ceramic Semi-Gloss Finish
- 680, Rich Shield Premium 100% Acrylic Semi-Gloss Enamel
- 750, Signature Series 100% Acrylic Semi-Gloss Enamel

• GLOSS FINISHES

- 200, Signature Series 100% Acrylic Gloss House & Trim Paint
- 660, Rich Shield Premium 100% Acrylic Gloss House & Trim Paint

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 – 0.019 Reversible
 - **Hose:** ¼ inch (6.3 mm) - ¾ inch (10 mm)

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 ½ pint per gallon.

PRODUCT APPLICATION – General

Richard's THOR Universal Waterborne Acrylic Primer may be easily applied with a quality brush, roller, or spray equipment as follows;

- Stir thoroughly in a spiral up and down motion before and during application to keep product completely mixed.
- **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 respraying or reworking.
- **Spray Application:** When applying by airless spray equipment, use a unit with a minimum of 2000 psi of pressure, with a 0.015 – 0.019 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°F 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.

NOTE: STAIN BLOCKING - When using as a stain blocking primer over certain water activated stains, such as smoke damage, nicotine, tannin stains, ink pen, and certain food stains, two coats of primer may be required. For best results, allow the first prime coat to dry 24 hours to help lock in water sensitive stains before applying the next coat of primer or finish. The most problematic stains may require the use of an alkyd stain blocking primer.

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!

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.

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