



PRODUCT DATA SHEET

PROD. #280

ROOFSHIELD 100% ACRYLIC ROOF MASTIC ELASTOMERIC COATING



PRODUCT DESCRIPTION

Roof Shield 100% Acrylic Roof Mastic Elastomeric Coating is a high build 100% acrylic mastic waterproof roof coating specifically formulated for application to various types of roofing surfaces. Its unique formulation is designed to provide unsurpassed quality and performance, significantly improving thermal properties by reflecting approximately 90% of ultra-violet light. It provides excellent weather resistance, waterproofing properties, and bridges hairline cracks. Easy to apply, it has excellent coverage, resists chalking and dirt pick-up and is mildew, algae and fungus resistant. Its mastic properties and characteristics allow for use as a patching material for repairs of some cracks and seams on the substrate, and its product versatility allows for application to flat, sloped, and ponding water roofs. Mildew Resistant - This paint contains agents that inhibit the growth of mildew on the surface of this paint film.

PRODUCT FEATURES	PRODUCT USES	PERFORMANCE QUALITIES	VOC COMPLIANCE										
<ul style="list-style-type: none"> 100% Acrylic Formula Excellent Coverage Waterproofs Weather Resistant Bridges Hairline Cracking Repairs Cracks & Seams Mildew, Algae & Fungus Resistant Easy To Apply 	<p><i>Suitable for the following properly prepared surfaces;</i></p> <p>EXTERIOR</p> <table> <tr> <td>Barrel Tile Roofs</td> <td>Metal Roofs</td> </tr> <tr> <td>Cement Tile Roofs</td> <td>Flat & Sloped Roofs</td> </tr> <tr> <td>Asphalt Tile Roofs</td> <td>Urethane Foam Roofs</td> </tr> <tr> <td>Tar & Gravel Roofs</td> <td>Modified Bitumen Roofs</td> </tr> <tr> <td>Travel Trailers</td> <td>Mobile Home Roofs</td> </tr> </table> <p>For Exterior Use Only!</p>	Barrel Tile Roofs	Metal Roofs	Cement Tile Roofs	Flat & Sloped Roofs	Asphalt Tile Roofs	Urethane Foam Roofs	Tar & Gravel Roofs	Modified Bitumen Roofs	Travel Trailers	Mobile Home Roofs	<p>Product Quality: Professional Best</p> <p>Product Use: Exterior</p> <p>Application: Brush, Roller Cover, Airless Spray</p> <p>Product System: Water-Based</p> <p>Finish: Flat</p>	<p>AIM Yes</p> <p>OTC Yes</p> <p>CARB No</p> <p>SCAQMD No</p> <p>MPI # No</p> <p>LEED® 09CI N/A</p> <p>LEED® 09NC N/A</p> <p>LEED® 09CS N/A</p> <p>LEED® H N/A</p>
Barrel Tile Roofs	Metal Roofs												
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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.

- Remove any loose scale, chalked, cracked or peeling paint from previously painted surfaces by hand scraping, sanding wire brushing and/or power tool cleaning, such as pressure washing or sandblasting.
- For exterior surfaces, pressure wash the entire surface area using a unit with a minimum of 1500 – 2000 psi of water pressure. More difficult areas should be hand scraped, sanded, wire brushed and/or power tool cleaned as mentioned above.
- For metal roof surfaces, remove any loose rust, mill scale, rust deposits or white rust from metal surface by the same methods as described above.
- Repair/replace any damaged and/or delaminated surface areas. Previously painted surfaces may need to be primed, depending on the overall condition of the existing coating.
- Sand all rough paint edges smooth to adjacent surface area. Sand all glossy surfaces to effectively dull existing finish.
- Prime and/or spot prime all bare or new surface areas with Manufacturer's properly specified primer/sealer compatible to the surface type and before application of finish coating.

CAUTION! Roof surfaces may be slippery, especially when wet. Avoid walking on the roof when moisture is present. Refer to OSHA Standard #1926.501-Fall Protection, to review safety guidelines for working or walking on all types of roof surfaces.

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.

PRODUCT ANALYSIS DATA

PIGMENT: 43.53%

VEHICLE: 56.47%

MORE DETAILED PRODUCT ANALYSIS DATA IS AVAILABLE UPON REQUEST.

TECHNICAL DATA

- APPLICABLE STANDARDS:** Exceeds ASTM D-6083
- COLORS:** White
- TINTING:** Universal Colorants - (*Pastel Colors Only*)
- VEHICLE TYPE:** 100% Acrylic
- VISCOSITY:** 112 KU ± 3
- GLOSS @ 60°:** Flat / 0 – 5 units
- UL FILE NO.:** R14353
- FLASH POINT:** 250° F
- FIRE RATING:** Class A – UL 790
- FLAMMABILITY:** Meets Class A Req. ASTM E-108 Applied To Non-Combustible Roof Decks. (SI-40-AC Specs)
- SOLAR REFLECTANCE:** Initial 0.88 (ASTM C-1549)
- VOC:** Not to Exceed 250 g/l – 2.10 lb/gal (*Meets AIM & OTC Standards*)
- SOLIDS:** By Volume: 50.58% ± 2%
By Weight: 65.47% ± 2%
- TENSILE STRENGTH @ 73°F:** 275 psi
- ELONGATION AT BREAK - @ 73°F:** 260%
- ACCELERATED WEATHERING:** 124% (*@ 73 °F After 1000 Hours.*)
- COVERAGE:** 50 – 125 Sq. Ft. / Gal. (*Depending on Application & Surface Porosity.*)
- MIL FILM:** Estimated @ 100 Sq. Ft. / Gal.
Wet: 16.0 mils **Dry:** 8.1 mils
- WATER VAPOR PERMEABILITY:** 11 Perms (*@ 20 mils DFT (ASTM D-1653A)*)
- WATER SWELLING:** 8.8%
- WET ADHESION:** 5.6 PLI
- TEAR RESISTANCE (DIE C):** 153 LBF/IN
- FUNGI RESISTANCE RATING:** 0
- LOW TEMPERATURE FLEX:** Pass (*½" Mandrel - 15 °F - 1000 Hours Accelerated Weathering*)
- DRY TIME:** (*@ 70° F & 50% Relative Humidity*)
To Touch: 2 – 4 Hours
Recoat: 4 – 6 Hours, or after overnight.
- CLEAN UP:** Warm Soapy Water
- THINNING:** Clean Water

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;

- **Unpainted Cement, Slate, Masonry & Barrel Tile Roofs:**
 - 56, Signature Series Waterborne Epoxy Ester Bonding Liquid
 - 1414, Rich Flex Alkali Resistant Acrylic Masonry Primer
- **Painted Cement, Slate, Masonry & Barrel Tile Roofs:**
 - 56, Signature Series Waterborne Epoxy Ester Bonding Liquid
 - 1791, Rich Flex 100% Acrylic Pigmented Multi-Surface Conditioner
 - 1791-C, Rich Flex 100% Acrylic Clear Multi-Surface Conditioner
- **Unpainted Asphalt Shingle & Gravel Roofs:**
 - 56, Signature Series Waterborne Epoxy Ester Bonding Liquid
- **Painted Asphalt Shingle & Gravel Roofs:**
 - 56, Signature Series Waterborne Epoxy Ester Bonding Liquid
- **Unpainted Metal Roofs:**
 - 1015, Rust Shield Red Oxide Metal Primer
 - 1018, Rust Shield Rust Inhibitive Metal Primer
 - 1215/1220, Rust Shield II 100% Acrylic DTM Primers
- **Painted Metal Roofs:**
 - 1791, Rich Flex 100% Acrylic Pigmented Multi-Surface Conditioner
 - 1791-C, Rich Flex 100% Acrylic Clear Multi-Surface Conditioner
- **Travel Trailer & Mobil Home Roofs:**
 - 56, Waterborne Epoxy Ester Masonry Bonding Liquid

APPLICATION EQUIPMENT

- **Brush Application:** Apply using a quality nylon, polyester, or combination nylon/polyester bristle brush.
- **Roller Application:** Apply using a smooth - medium nap synthetic or lamb's wool roller cover, depending on the texture and surface porosity.
- **Spray Application:**
 - **Pump:** Gas or Electric Airless Sprayer
 - **Pressure:** Unit capable of pumping two (2) gallons per minute.
 - **Tip:** 0.021" – 0.030" Reversible
 - **Hose:** ¼ inch (6.3 mm) - ⅜ inch (10 mm)

PACKAGING & WEIGHT PER GALLON

- | | | |
|---------------------|-----------------|------------------|
| • Packaging: | Quarts – N/A | Gallons – 4/case |
| | 2 Gallons – N/A | 5 Gallons - Each |

- **Weight per Gallon:** 11.99 lbs.

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.

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 06-13

PRODUCT APPLICATION – General

RoofShield 100% Acrylic Roof Mastic Elastomeric Coating may be easily applied with a quality brush, roller cover, or airless spray equipment as follows;

- Stir thoroughly in a spiral up and down motion before and during application.
- For best results, two (2) finish coats must be applied in such a manner as to yield a minimum of 10.0 mils wet film thickness (WFT) per coat application, allowing a minimum of 4 – 6 hours to dry between coats.
- To assure color uniformity intermix multiple containers of custom tinted or stock colors. Apply a small test area to verify color.
- On most roof surfaces, it may be necessary to cool down the hot roof by lightly misting the roof with cool water. This will prevent the extreme quick drying, and possible burning of this roof coating.
- Do not over wet the surface area. This roof coating may be applied to slightly damp roof surfaces only, and will not adhere to surfaces that are over saturated with water.
- When applying by brush, apply a smooth and generous coat on smaller surface areas, such as painting trim or cutting-in larger surface areas.
- When applying by roller, apply an even and generous coat in a "W" or crisscross motion, avoiding any excessive respreading and reworking.
- When applying by airless spray equipment use a unit capable of pumping two (2) gallons per minute at no less than 3000 psi with a 0.021" – 0.035" fluid spray tip.
- During spray application, it is recommended to back-roll the surface area to ensure proper adhesion and an even coat application.
- Always paint to a natural break in the surface, such as a corner or edge.
- 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.
- If the roof coating is water-damaged by rain or heavy dewfall before coating is thoroughly dry, the coating must be cleaned with hot water as soon as possible.

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!