



## PRODUCT TECHNICAL DATA INFORMATION

PRODUCT NO.: 290

### ROOF SHIELD THERMAL ELASTOMERIC CERAMIC ROOF COATING

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#### PRODUCT DESCRIPTION

Richard's Roof Shield Thermal Elastomeric Ceramic Roof Coating is a specially formulated 100% acrylic emulsion high build elastomeric roof coating that utilizes new technologies incorporating the use of ceramic microspheres. This unique formulation is designed to provide unsurpassed quality and performance, significantly improving thermal and insulating properties by reflecting approximately 90% of the sun's ultraviolet rays. It provides excellent weather resistance, waterproofing properties, it bridges hairline cracking, and is mildew, fungus and algae resistant. It is easy to apply, provides excellent adhesion and coverage and offers excellent product versatility for application to a variety of roof substrates, including flat, sloped and ponding water roofs.

**Mildew Resistant** - This paint contains agents which inhibit the growth of mildew on the surface of this paint film.

**FOR EXTERIOR USE ONLY!**

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#### SUGGESTED PRODUCT USE

*SUITABLE FOR APPLICATION TO THE FOLLOWING PROPERLY PREPARED SURFACES:*

**ASPHALT SHINGLE ROOFS \* CEMENT TILE ROOFS \* TAR & GRAVEL ROOFS \* POLYURETHANE FOAM ROOFS  
MOBILE HOME ROOFS \* TRAVEL TRAILER ROOFS \* MODIFIED BITUMEN ROOFS**

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#### PRODUCT FEATURES

**PRODUCT VERSATILITY \* BRIDGES HAIRLINE CRACKING \* WATERPROOFS \* MILDEW RESISTANT \* FUNGUS RESISTANT  
ALGAE RESISTANT \* THERMAL & INSULATING PROPERTIES \* 100% ACRYLIC FORMULA \* CERAMIC MICROSPHERES**

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#### PRODUCT SPECIFICATION DATA

* <b>COLORS:</b>	White
* <b>FINISH:</b>	Eggshell - (Low Sheen)
* <b>FLASH POINT:</b>	N/A
* <b>METHOD USED:</b>	T.C.C.
* <b>COATING V.O.C.:</b>	<b>Not To Exceed - .83 LB/GAL. - (100 GRAMS/LTR.)</b>
* <b>SOLIDS:</b>	By Volume: 50.45% ± 2% By Weight: 64.31% ± 2%
* <b>RECOMMENDED MIL FILM:</b>	Wet: 16.0 mils - (Estimated at 100 Square Feet Per Gallon). Dry: 8.1 mils - (Estimated at 100 Square Feet Per Gallon).
* <b>ESTIMATED COVERAGE:</b>	Covers approximately 50 - 125 square feet per gallon, depending on the type of application and the porosity of the surface area to be painted.
* <b>CLEAN UP:</b>	<b>Water</b>
* <b>THINNING:</b>	<b>Clean Water</b>
* <b>ESTIMATED DRY TIME:</b>	Dries to touch in approximately 2 to 4 hours. Re-coat after 4 hours or overnight dry, depending on conditions.

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#### PRODUCT ANALYSIS DATA

PIGMENT: 41.74%

VEHICLE: 58.26%

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

## SURFACE PREPARATION

**GENERAL:** The entire surface area should be clean, dry, sound and fully cured. For best results, it is recommended to pressure wash the surface with a minimum 1500 psi pressure washer to effectively remove any dirt, grease, oils, waxes, mildew, and any other surface contaminants that may cause paint failure. Remove any loose scaling, cracking or peeling paint by hand scraping, sanding, wire brushing, or by power tool cleaning methods, such as pressure washing, electric sanders, grinders, etc.. Remove any loose rust, mill scale and rust deposits from metal roofs using the same methods. Repair/replace any damaged, delaminated and surface imperfections with the properly recommended patching compounds and/or building materials. Prime all bare, new, and recently repaired surfaces with Manufacturer's properly recommended primers for the appropriate substrate.

**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 a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD, or log on to [www.epa.gov/lead](http://www.epa.gov/lead)

## PRODUCT APPLICATION

**Richard's Roof Shield Thermal Elastomeric Ceramic Roof Coating** is easily applied with a quality brush, roller or airless spray equipment. For best results, it is recommended to apply at a wet mil film thickness of no less than 10 mils (WFT). If applying with a brush, use on smaller surface areas, such as painting trim or cutting larger surface areas. When applying by roller cover, apply a smooth and generous coat application in a "W" or crisscross motion, avoiding any excessive respreading or reworking. Always maintain a wet edge during application by brushing or rolling into previously applied coating area. If applying by airless spray, it is recommended to use a unit that has the capacity to pump a minimum of two gallons per minute with a 0.031 - 0.035 fluid spray tip. During spray application, the surface area should be back-rolled to insure proper adhesion, even application and proper wet mil film thickness. For best results, it is recommended to apply two (2) finish coats. The first coat should be allowed to dry overnight before application of the second coat. Avoid painting outside when weather conditions are threatening, and late in the afternoon when there is a threat of moisture condensing on wet paint. Apply when surface and ambient temperatures are above 55° F and below 90° F.

## PRECAUTIONS

**CAUTION: KEEP OUT OF REACH OF CHILDREN!** Avoid prolonged contact with skin and breathing of dust, vapors and/or spray mists. May cause headache and nausea. Avoid contact with eyes and skin. **USE WITH ADEQUATE VENTILATION!** Use outdoors id possible. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor / mists levels are above applicable limits, wear an appropriate, properly fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. 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! KEEP FROM FREEZING!**

**FIRST AID:** In case of skin contact, wash thoroughly with plenty of soap and water. For eye contact, flush thoroughly with plenty of water for 15 minutes and Gget medical attention immediately. If you experience difficulty breathing, leave area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting, get medical attention immediately.

## MIXING INSTRUCTIONS & PACKAGING

Stir thoroughly and apply as it comes from the container. **Thinning Is Not Necessary, DO NOT THIN!**

\* Pint Cans: N/A

\* Quart Cans: N/A

\* Gallon Cans: 4 Per Case

\* Two Gallon Cans: N/A

\* Five Gallon Cans: Each

\* Weight Per Gallon: 10.44 lbs.

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