



100% ELASTOMERIC ULTRA WHITE SEALER STYRENE/ACRYLIC SILICONE-MODIFIED ROOF COATING

PRODUCT DESCRIPTION:

A professional grade 100% elastomeric ultra-white membrane coating with 575% elongation, internally plasticized to retain its mechanical properties for many years, that dries to a heat-reflective Ultra-white film.

BASIC USES:

A heat-reflective elastomeric coating formulated to protect and waterproof a wide variety of structurally sound roofing substrates, such as conventional bituminous built-up roofs, polyurethane foam, galvanized steel, concrete, and asphalt shingles.

WARRANTY: 25 year

PRODUCT ADVANTAGES:

- ***100% elastomeric**
- * Waterproof
- * Ultra white
- * 575% elongation (ASTM D 412)
- * Lightweight
- * Heat-reflective

Percent Solids:

52.25 ± 1% by weight
40.39 ± 1% by volume

Weight/Gallon:

10.39 ± 0.5 lbs.

Color:

Ultra white

Flash Point:

Non-flammable

Drying Time:

To touch: 1 hour
To recoat: 24 hours

Sizes:

5 gallons
1 gallon



Recommended Film Thickness @ 100 sq.
ft./gal: 8 mils dry, 16 mils wet.

Finish:

*Flat (5°–10°)

*Geometry 60°

Viscosity:

110-115 Ku's

Percent Pigment by

Weight: 25.77 ± 1%

Weight/Gallon:

10.39 ± 0.5 lbs.

Theoretical Coverage:

Metal 100 sq. ft./gal.

Wood 100 sq. ft./gal.

Cement 50 sq. ft./gal.

Built-up roofs 50 sq. ft./gal.

General surfaces 50 sq. ft./gal.

Thinning:

Do not thin, use only as it comes.

Surface Preparation:

Clean the roof substrate thoroughly. Remove all foreign matter and old loose coating by sandblasting, high pressure water-blasting, or wire brushing. Kill and remove all mildew or fungus growth on the substrate. Substrate must be dry at time of application. Make sure all joints are sealed with Heat Guard Interior Elasto-meric Crack Filler RC-230 and let dry 24 hours.

Mildewed Surfaces:

Any existing mildew on the surface must be completely killed and removed prior to the application of Thermal Coat Interior. Any mildew not removed may continue to grow through the new finish. Using a long-handled brush scrub mildewed surface with a mix of one quart of household bleach and three quarts of warm water. Rinse completely and let dry.

Ponding Water Areas:

Areas where ponding water lasts one day or more must be repaired using roof drains or other corrective measures before applying Thermal Coat Interior. Less severe ponding areas must be re-coated with Thermal Coat Interior annually.



Repairing Cracks and Seams:

Cracks are basically one of the following two types:

SHRINKAGE CRACKS

(smaller than 1/3"): Apply a heavy coat of Thermal Coat Acrylic Roof and Wall Primer/Sealer AS-210 over cracks and 2" to each side of it. Let dry thoroughly three hours and apply a second coat.

MOVEMENT CRACKS

(1/32" or bigger): Pout out to 1/4" wide and 1/4" deep, clean with water, let dry and prime with Thermal Coat Acrylic Roof and Wall Primer/Sealer AS-210 over crack and 2" to each side of it; let dry. Fill joints completely and 2" to each side with Thermal Coat Interior Elastomeric Crack Filler RC-230, while wet lay Thermal Coat High Strength Polyester Weave MP-997 over the cracked area and immediately reapply Thermal Coat Interior Elastomeric Crack Filler RC-230 and let dry completely for 72 hours. (Tape must be used always over areas where two surfaces meet or come together to form a seam. Seam taping gives added strength to these areas and is important to the success of your project.)

Concrete Roofs:

Repair holes or any weakened areas of concrete surface with good quality masonry cement. Paint area to be repaired with Thermal Coat Bonding Agent CB-950 and let dry. Add one gallon of Thermal Coat Bonding Agent Blue CB-950 to each fifty pounds of cement in the mix; apply concrete mix and let cure for one week. Apply one coat of Thermal Coat Acrylic Roof and Wall Primer/Sealer AS-210 and let dry four to six hours. Apply a second coat and let it dry thoroughly. Repair cracks using Thermal Coat Interior Elastomeric Crack Filler RC-230 and Heat Guard High Strength Polyester Weave MP-997 as recommended. Apply one coat of Thermal Coat Interior. Let dry 24 hours and apply a second coat.

Metal Roofs:

Remove rust and prime with Thermal Coat Metal Master Primer. For galvanized metals, use Thermal Coat Super Galvanized Primer SG-664. Replace loose fasteners. Old fasteners must be covered with Thermal Coat Interior Elastomeric Crack Filler RC-230 and let to dry 24 hours. Apply two coats of Thermal Coat Interior. Let dry 24 hours and apply a second coat.

Polyurethane Foam:

Repair holes, cracks and indentations. Where water will collect, apply several layers of Thermal Coat Interior Elastomeric Crack Filler RC-230 to allow water to drain, and let dry 24 hours. Apply one coat of Thermal Coat Interior, let dry for 24 hours and apply a second coat.

Built-Up Roofs:

Remove all loose gravel and clean roof thoroughly. Repair cracks with Thermal Coat Interior Elastomeric Crack Filler RC-230 and Heat Guard Polyester Weave MP-997 as recommended. Apply one coat of Thermal Coat Interior, sealing completely all of the gravel; let dry 24 hours. Continue with two coats of Thermal Coat Interior, allowing 24 hours to dry between coats.



Asphalt Roofs:

Clean surface, making sure to remove all dirt, oil and grease. Repair cracks as recommended. Apply one coat of Thermal Coat Interior, let dry 24 hours and apply a second coat.

Asphalt Shingles:

Roof must be clean and completely dry. Apply four coats of Thermal Coat Interior at a rate of 50 sq. ft per gallon. Let dry 24 hours between coats. Be sure all tabs are completely sealed. If not, apply Thermal Coat Interior Elastomeric Crack Filler RC-230 and Thermal Coat High Strength Polyester Weave MP-997 on tab joint as recommended, followed by an additional coat of Heat Guard Interior.

Application:

Apply with a 3/4" Nap Rough Surface Roller PA-568 or airless spray. Wait 24 hours between coats. Apply only when temperature is above 50°F (10°C). Do not apply if temperature is expected to drop below 50°F (10°C) before the coating has completely dried. If roof is hot, spray with water to avoid sealer from drying too fast. The use of a light colorant is recommended with the first coat, to show the areas of coverage of the second coat. Two full coats are generally needed for proper sealing. Always apply coats in different directions. Never thin or dilute from full strength.

Recommended Equipment:

Use an airless pump with pressure of 1,500 to 2,000 psi. A fluid delivery of 1 to 2 gallons per minute with a spray tip of .026 to .035 will be adequate. Wait 24 hours between coats. The hoses should be at least 3/8" inside diameter and of the high-pressure rate type. If the hose length is more than fifty feet, a larger inside diameter will be required.

Cleanup:

Clean roller and equipment after use with warm soapy water.

Drying Time:

Approximately sixty minutes to touch. Cure time is controlled by thickness of the applied coating, relative humidity and temperature. Allow 24 hours between coats.

Weather:

Select a warm, clear and sunny day. Consult your weather bureau to make sure there is no forecast of rain. Do not apply after 4:00 p.m. Keep rain-free for a minimum of six hours after application.

Notice:

The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.