

Urethanizer[™]RC-994

100% Acrylic-Urethane Ceramic Rubber Top Membrane

Description:

Urethanizer™ is a 100% acrylic + urethane blend of high performance components, urethane ceramic rubberized elastomeric roof and wall membrane sealer. A highly durable, fiber reinforced roof coating with superior adhesion properties. The ceramic composition of this product will significantly lower interior temperature of structures by reflecting 79% of the suns' rays and reducing heat by 89%. Urethanizer™ will not crack, crumble or peel off, withstanding severe weather and total joint movements. It will provide a seamless, waterproof and weather protective seal tightly adhered to the roof surface.

Meets Requirements for

ASTM D 6083:	Yes
Energy Star:	Yes
Miami-Dade County:	Yes
VOC Compliant (<100 g/L):	Yes
SCAQMD:	Passes
AIM & OTC:	Passes

Product Advantages:

ASTM C 1549

- 100% Acrylic + Urethane + Ceramics
- Fibers reinforced for a high tensile strength
- Energy Star® certified for cool roofs
- Miami Dade County approved
- Excellent wind uplift resistance
- Excellent dirt pick-up resistance
- Low V.O.C., volatile organic compound, and non-flammable

Performance:	
Tensile Strength ASTM D 2370	304 PSI
Elongation ASTM D 2370	185%
Elongation ASTM D 2330	N/A
Water Permeability ASTM D 1653	30.8 perms
Solar Reflectance	82%

Uses:

Urethanizer™ has proven its outstanding properties during adhesion-in-peel testing, exceeding every standard as per ASTM C794 specifications over a variety of substrates like modified asphalt membranes, built-up roofs, polyurethane foam, concrete surfaces, aged galvanized metal, bonded tar and granulated shingles.

Technical Data:

Product Type: 100% Acrylic and

Urethane

Finish: Flat (5° - 10°)
*Geometry 60°

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Solids (%): $85 \pm 2\%$ by weight $80 \pm 2\%$ by volume

 11.49 ± 0.05 lbs. $(5.22 \pm 0.02$ kg.)

(3.22 ± 0.02kg.)

Applies blue and dries Ultra White

Drying Time: ASTM D1640

Color:

Weight/Gallon:

To touch: 60 min

To recoat: 24 hrs

Coverage:

Can Sizes:

Theorical: 12.82 ft.2/gal.

On Concrete: 75 ft.²/gal. (7 m²/gal.) @

On Metal: 17 dry mils, 21 wet mils

150 ft.²/gal. (14 m²/gal.) @

8.6 dry mils, 11 wet mils

5 gallons 1 gallon

Thinning: 1 gallon

Flash Point: Is not recommended

Viscosity: Non-flammable

120 - 125 KU

Percent Pigment by Weight:

38 ± 2%

VOC: <50 g/L

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.

F.D.S.: Available upon request.

Energy Saving:

Urethanizer[™] is an Energy Star certified roof coating that will provide an energy efficient structure for many years, dramatically lowering internal temperature, thus requiring less energy consumption for cooling. Test results in three major US cities show that Urethanizer[™] will provide an initial solar reflectance of 79% with maintained average reflectance after 3 years of 82% (ASTM C 1549) and the elimination of 89% (ASTM C 1371) of all heat received.

After 3 years of service, side by side comparison shows the superiority of Urethanizer $^{\text{TM}}$, as a white reflective coating, over other acrylic copolymer or elastomeric coatings.

Surface Preparation:

Make certain the roof substrate is thoroughly clean and dry. Remove all debris and old loose coatings by means of high-pressure water blasting, scraping or wire brushing. Any existing mildew on the surface must be completely killed and removed prior to the application of this product. Scrub mildewed surface with Dry Coat Surface Cleaner. Rinse completely and let dry. Surface should not accumulate water for more than 48 hours. Coat entire roof deck with Acry Primer Seal AS-211, at a rate of 250 ft.²/gal., if necessary. This surface primer is specially designed to penetrate concrete, seal surface porosity and waterproof roof decks.

Coverage:

Metal Roofs 150 ft.²/gallon (14m²/gal.) 11 wet mils/ 8.6 dry mils per coat (17.2 total dry mils)

Wood Surfaces 150 ft.²/gallon (14m²/gal.) 11 wet mils/ 8.6 dry mils per coat (17.2 total dry mils)

Concrete Roofs 75 ft.²/gallon (7m²/gal.) 21 wet mils/ 17 dry mils per coat (34 total dry mils)

Asphalt Roofs 75 ft.²/gallon (7m²/gal.) 21 wet mils/ 17 dry mils per coat (34 total dry mils)

Polyurethane 75 ft.²/gallon (7m²/gal.) 21 wet mils/ 17 dry mils per coat (34 total dry mils)

Coverages on this table may vary for commercial Roofing System to be used. Consult the Roofing & Waterproofing Solutions/Specifications Manual for details.

Concrete roofs: Repair holes or any weakened areas of concrete surface Limited warranty: The manufacturers liability in connection with the sale of with good quality masonry cement mix using Lanco® CB9000 or CB4000 this product extends only to the replacement price if it should fail to comply

Admixture, or Lanco[®] Bonding Agent CB-950 as per product data applica-with quality standards or specifications. Protect from freezing.

Surface Application Recommendations:

When used as a stand-alone product, apply the first coat by pouring liquid hours between coats. Be sure all tabs are completely sealed. If not, apply Urethanizer™ RC-994 onto roof and spreading it at a rate of 75 ft.2/gal. Lanco® Siliconizer Elastomeric Crack Filler™ RC-230 and Lanco® High Avoid going twice over the same area. Allow 24 hours before applying Strength Polyester Weave MP-997 on tab joint and let dry 24 hours to subsequent coats.

When used in combination with Polyester Fabric Mesh FM-222 a base coat Method of Application: of Agua-Proof MD-863 base membrane must be applied to embed the polyester fabric. Please consult technical data sheet of base membrane for Apply with a Lanco® 3/4" Nap Rough Surface Roller PA-568 or airless spray. procedures.

Weather: Select a warm clear day for installation. Consult weather bureau if needed to ensure there is no forecast of rain. Do not apply product after 4:00PM. Product must be kept rain free for at least 6 hours after application. dilute from full strength.

Water ponding areas: Areas where water may accumulate for more than **Recommended equipment:** Use an airless pump with pressure of 1,500 to surface level corrections must be made, use cement mix with Lanco® Concrete Admix-ture CB-9000. Important: If used on roofs with slope less than 1/2 inch per foot, warranty will be void if not re-coated annually with one coat of Urethanizer™.

Repair joints, cracks and seams: Make sure joints, cracks, seams and Cleanup: Clean roller and equipment after use with warm soapy water. flashing are clean and dry. With a putty knife, apply Siliconizer™ Crack Filler and a polyester weave over cracks, seams, flashing and around any standing **Drying time:** Approximately 60 minutes to touch. Cure time is controlled by objects about 2 inches to both sides, and let dry thoroughly 24 hours. Lanco thickness of the applied coating, relative humidity and temperature. Allow 24 Polyflex one-part urethane should be used instead.

tion instructions and let dry. Apply concrete mix and let to cure. Metal roofs: Remove rust and prime non-galvanized metals with Lanco[®] above 105°F. Protective clothing and eyewear should be used during Metal Master Primer™. Replace loose fasteners. Old fasteners must be application of this product. Ensure that lid is tight and pail is upright and covered with Lanco[®] Siliconizer Elastomeric Crack Filler™ RC-230 or Lanco secure before transporting. Do not allow pail to roll as this may cause lid to Polyflex one-part urethane, and let to dry for 24 hours.

Polyurethane foam roofs: Make sure surface is in good conditions, free of spills. holes and cracks. If it's in optimum conditions proceed with application. Do not use over other 100% Silicone coatings.

and clean roof thoroughly. Repair cracks or joints with Lanco® Siliconizerinduce vomiting, Consult a physician immediately. Use only with adequate Elastomeric Crack Filler™ RC-230 and Lanco® Polyester Weave MP-997, ventilation. Keep out of reach of children. apply one coat of Lanco® Aqua-Proof™ MD-863 to the entire roof and let dry 24 hours to proceed, apply 2 coats of Urethanizer to the entire area. Do not use on pebbles gravel roofs.

Asphalt shingles: Roof must be clean and completely dry. Apply 2 coats of Lanco® Aqua-Proof™ MD-863 at a rate of 75 sq. ft per gallon. Let dry 24 proceed.

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. Two full coats are generally needed for proper sealing. Always apply coats in different directions. Never thin or

48 hours must be corrected by using roof drains or other means available. If 2,000 psi. A fluid delivery of 1 to 2 gallons per minute with a spray tip of 0.026 to 0.035 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.

hours between coats.

Warning!: Do not allow product to freeze. Do not store in temperatures loosen and allow leakage to occur. Transport product placed on top of a protective cloth in cargo area of vehicle to prevent damage from accidental

Cautions: Contains styrene butadiene and acrylic resin. In case of eve contact, flush thoroughly with water. Do not rub eyes. In case of skin Asphalt membrane and built-up roofs: Remove all loose mineral gravelcontact, flush area immediately with clean water. If swallowed, do not