



White-Seal™ RC-865 Styrene Acrylic Silicone Top Coating

Description

This product is a styrene acrylic silicone roof and wall sealer. It is a single component, elastomeric sealer that will adhere tightly to many surfaces and provide a thick, high performance, 100% water and weather resistant membrane, usually without need of a primer coating. **White-Seal™** dries extremely fast by a transition process, requiring half the time as regular sealers. It will significantly lower the interior temperature of the structure by reflecting 73% of the sun's rays and reducing heat received by 85%. Product will not crack, peel or blister even under severe weather conditions or total joint movement.

Uses

In laboratory tests, **White-Seal™** has proven its outstanding properties during adhesion-in-peel testing, exceeding every standard (per ASTM C 794 specifications) over a variety of substrates. This will assure many years of excellent protection over surfaces such as:

- Modified asphalt membranes
- Built-up roofs
- Asphalt shingles
- Wood roof decks
- Concrete roof decks
- Metal roof decks

Advantages

- Styrene acrylic silicone technology
- High UV ray reflectance
- High resistance to ozone
- Insulates and provides a cool roof
- Excellent wind lift resistance
- Ocean spray resistant
- Good vapor permeability
- Allows substrate to breathe
- Low VOC roof coating
- Excellent pick up dirt resistance
- Ultra fast drying properties
- High resistance to ponding water*
- High resistance to mildew and algae
- Dries ultra white
- Does not usually require primer

Surface Preparation

Make certain the roof substrate is thoroughly clean and dry. Remove all debris and old loose coatings by means of sandblasting or high-pressure water stream or wire brushing. Remove all mildew, algae or fungus growth with a

1:3 solution of household bleach, flushing thoroughly with water and allowing to dry completely. *Surface should not accumulate water for periods longer than 48 hours. Coat entire roof deck with **Acrylic Primer Sealer AS-210**, if necessary, at a rate of 250 sq.ft./gal.

Application

Apply utilizing a **LANCO®** 1/4" nap **Rough Surface Roller PA-568** or airless spray. Allow 24 hours between coatings. Apply only when temperature is above 50° F (10° C). Do not apply if temperature is expected to drop below this level before drying is complete. On overly hot surfaces, cool with water spray to prevent sealer from drying too fast. Two coats are recommended for proper sealing, applying coats perpendicular to each other. Never thin or dilute from full strength. When used with **Polyester Fabric Mesh FM-222** for reinforcement, a proper coat of **Aqua-Proof™ MD-863** must be applied in which to embed the fabric. Consult **Aqua-Proof™ MD-863** technical data or **White-Seal™ RC-865** roofing specifications.

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 6-8 hours after application.

Certified Effective Energy Saving Coating

White-Seal™ RC-865 is an **Energy Star** certified roof coating that will provide many years of an energy efficient structure, dramatically lowering internal temperature thus requiring less energy consumption for cooling. Test results in three major US cities show that **White-Seal™ RC-865** will provide a solar reflectance of 82% (ASTM C 1549) after three years and eliminates 89% (ASTM C 1371) of heat received.



Solar Reflectance Test				
Material ID Location	ASTM Test Method	Result, Solar Reflectance, (r) Air Mass = 1.5		
		Avg.	SD	95% CI
RC-865-1 Orlando	C 1549	0.83	0.006	0.014
RC-865-2 Orlando	C 1549	0.83	0.002	0.005
RC-865-3 Orlando	C 1549	0.83	0.002	0.005
RC-865-1 Miami	C 1549	0.85	0.004	0.009
RC-865-2 Miami	C 1549	0.85	0.003	0.009
RC-865-3 Miami	C 1549	0.85	0.007	0.018

Initial reflectance values are shown lower than the maintained value due to coating being blue at time of application turning ultra white after 7 days exposure to sunlight.

White-Seal™ RC-865 Starts Whiter – Stays Cleaner

From the moment of application, **White-Seal™ RC-865** provides a strong thick monolithic membrane utilizing the most advanced ultra-small particle technology of tightly bonded molecules, which prevent dirt from embedding on the surface. The high content of highly reflective pigments causes it to reflect 73% of all sun's rays and eliminates 85% of received heat. This revolutionary technology makes the finished surface remain whiter than competing products. Assures a long-term advantage over competing products.

Disclaimer: This technical data is true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without notice.

Technical Data

Percent Solids:	61.00 ±1% by weight 46.00 ±1% by volume
Weight per Gallon:	11.27 ± 0.5 lbs.
Color:	Ultra White
Drying Time:	Touch-dry – 1 hour For recoating – 4-8 hours
Recommended Coverage:	50 sq.ft. @15 dry mils, 33 wet mils
Available Sizes:	5 gal. and 1 gal. containers
Thinning:	Do not thin. Use only as provided.
Flash Point:	Non flammable
Finish:	Flat (5°-10°) *Geometry 60°
Viscosity:	110-115 Ku's
Percent (%) Pigment by Weight:	36.5%±1%
Theoretical Coverage:	Up to 50 sq.ft./gal.

Shelf Life: 3 years after date of manufacture when stored out of the sun in unopened buckets at a temperature of less than 100 degrees F. Keep from freezing.

M.S.D.S. Available upon request.

Surface Preparation: Clean the roof substrate thoroughly. Remove all foreign matter, sealer, and old loose coatings by sandblasting, pressure washing or wire brushing. Kill and remove all mildew or fungus growth on the substrate, flush with water, and let dry completely. Substrate must be dry at time of applying sealer and subsequent coating. Be sure roof is well ventilated, in order to avoid condensation on the roof. Repair all existing leaks.

IMPORTANT: Lanco *White Seal™ RC-865* will resist standing water (for up to 48 hours). Do not use on roofs with a slope less than 1/2" inch per foot, (If used on roofs with slope less than 1/2" inch per foot, warranty will be void if not re-coated yearly with 2 coats of *White Seal™ RC-865*). Do not use on rubber roofs.

Mildewed Surfaces: Any existing mildew on the surface must be completely killed and removed prior to the application of this product. (Any mildew not removed may continue to grow through the new finish). Scrub mildew surface with a mixture of 1 quart of bleach with 3 quarts of warm water. Rinse completely and let dry.

Repair cracks and seams: Make sure cracks, seams, and flashing are clean and dry. With a putty knife, apply *Siliconizer™ Crack Filler RC-230* and *Fiber-Glass Patching Weave MP-997* to the fissure/gap in or around any object affixed or penetrating the surface to be sealed. Note: (If gap is deep, insert proper size backer rod to 1/4" inch from surface face before filling with crack filler. While the *Siliconizer™ Crack Filler RC-230* is still wet, press In Lanco *Fiber-Glass Patching Weave MP-997*(2" inches beyond on all sides of repair). Immediately, apply a final coat of crack filler to hide fiber-glass mesh and leave a smooth finish surface. Let dry 24 hours.

Application: Apply with a 3/4" Nap, rough surface roller or airless spray. Wait 24 hours between coats. Apply only when temperature is above 50 F degrees. Do not apply if temperature is expected to drop below 50 F degrees before coating has completely dried. Do not apply on roof if temperature is above 95 F degrees. A hot roof can be cooled with water spray before coating. Let roof dry before proceeding with coating. 2 coats are needed for proper sealing. Always apply each coat in the opposite direction. Never thin or reduce coating from full package strength if possible.(maximum reduction is 10% with water).

Water ponding areas: Areas where ponding water lasts 1 day or more must be repaired using roof drains or other corrective measures, before applying *White Seal™ RC-865* roof sealer. Roofs with standing water and improperly drained areas require yearly maintenance with an additional 2 coats of *White Seal™ RC-865* over the affected area.

Concrete Roofs: Repair holes or any weakened areas of concrete surface with a good quality masonry cement. Coat area to be repaired with Lanco® *Bonding Agent CB-900* and let dry. Add 1 gallon of Lanco® *Bonding Agent CB-900* to each 50 pounds of cement in the mix. Apply concrete mix and let cure for 7 days. Repair cracks using Lanco® *Siliconizer Elastomeric Crack Filler™ RC-230* and Lanco® *Fiber-Glass Patching Weave MP-997* as recommended. Apply 1 coat of Lanco® *White Seal™ RC-865*. Let dry 24 hours, then apply a second coat.

Aged Metal Roofs: (DO NOT USE ON NEW GALVANIZED METAL) Clean surface, remove rust, and spot prime repaired area with Lanco® *Metal Master Primer™ MM-200* the same day. Replace loose or missing fasteners. All fasteners must be covered with Lanco® *Siliconizer Elastomeric Crack Filler™ RC-230* and let dry 24 hours. Apply 1 coat Lanco® *White Seal™ RC-865*. Let dry 24 hours, then apply a second coat.

Built-Up Roofs: Remove all loose gravel and clean roof thoroughly. Repair cracks with Lanco® *Siliconizer Elastomeric Crack Filler™ RC-230* and Lanco® *Fiber-Glass Patching Weave MP-997* as recommended. Apply 1 coat of Lanco® *White Seal™ RC-865*, to completely seal all of the gravel. Let dry 24 hours. Apply 2 coats of Lanco® *White Seal™ RC-865*, allow 24 hours to dry between coats.

Asphalt Roofs: Clean surface, making sure to remove all dirt, oil and grease. Repair cracks as recommended. Apply 1 coat of Lanco® *White Seal™ RC-865*, let dry 24 hours, then apply a second coat.

Asphalt Shingles: Roof must be cleaned and completely dry. Be sure all tabs are completely sealed down. If loose tabs exist, apply Lanco® *Siliconizer Elastomeric Crack Filler™ RC-230* and Lanco® *Fiber-Glass Patching Weave MP-997* under loose tabs. Allow 24 hours to dry. Apply 3 to 4 coats Lanco® *White Seal™ RC-865* at a rate of 50 sq.ft. per gallon. Allow 24 hours to dry between coats. Note: Asphalt roofing: Prior to application over asphalt roofs the attic area should be very well ventilated (gable vent fan works best) to prevent condensation on the roof or in between the layers of the material or decking. Be sure all tabs are completely adhered and sealed. Areas where the existing material has blistered, buckled or become wet, must be removed and repaired using similar products or system. Be sure all edges and grooves are completely coated to ensure a uniform thickness. If any large holes, dents, grooves or flashing transitions remain, apply *Siliconizer Crack Filler* and fabric mesh on those areas not properly sealed. Additional coats may be need in order to provide a completely covered and uniform continuous film.

Recommend Equipment: Use airless sprayer with pressure of 1,500-2,000 psi, a fluid delivery of 1 to 2 gallons per minute, with a spray tip of .026-.035. Use a high pressure material hose of at least 3/8" inch inside diameter no longer than 50' feet in length. (For longer hose lengths use larger inside diameter).

Clean-up: Clean all equipment after use with warm soapy water.

Drying Time: Approximately 1 hour to touch. Full cure is controlled by thickness of coating applied, temperature, and relative humidity.

Weather: Select a clear day above 50 F degrees. Consult your weather bureau to make sure there is no precipitation forecasted. Do not apply after 4:00 P.M. Allow a minimum of 4 hours dry time before any precipitation comes in contact with sealer.

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M.S.D.S.: Available upon request.

