



GENERAL SPECIFICATIONS

COOLGUARD™ (RC-3700)

100% Acrylic Urethane Insulating Roof Membrane

Description

COOLGUARD™ ROOF is a powerful, high performance roof sealer, made from an acrylic urethane hybrid that is 100% elastomeric that will waterproof roofs and walls. Lanco **COOLGUARD™** provides a single monolithic layer that will provide a 100% waterproofing seal. It significantly reduces the interior temperature of your house in two ways:

1. Its ultra white finish will remain white longer and free of grime and dust, reflecting 87% of all the sunrays and eliminating 90% of all the heat it receives.
2. Its revolutionary **THERMAFLEX TECHNOLOGY** uses tiny insulating micro-spheres that prevent heat from being absorbed by the surface.

Meets Requirements for"

ASTM D 6083	Yes
Energy Star:	N/A
Miami Dade County: VOC	Yes
COMPLIANT: (<50 g/L)	Yes
SCAQMD:	Passes
AIM & OTC:	Passes

Advantages

- Primer + Coating + Elastomeric + Insulation
- Low V.O.C. and low odor
- High resistance to mildew and dirt
- 87% of solar reflectance
- 90% of heat reduction
- Seal and Bridge cracks
- May be reinforced with **POLYESTER FABRIC MESH FM-222**
- Prevents heat from being absorbed
- Excellent dirt pick-up resistance

Uses

For waterproofing and protecting a wide assortment of approved roofing system and/or substrates that are structurally sound such as conventional bituminous built-up roofs, concrete, metal, aged galvanized metal. Do not apply directly on polyurethane foam, rubber roofs (EPDM), TPO, PVC (single-ply roofing material) or over uncured asphalt mastic or aluminized roof coatings. Consult a Lanco Representative for further details on application.

Important

Florida Building Code and The National Roofing Contractors Association consider ponding water to be an undesirable non-

standard roofing condition. This may be an indication of structural distress or other issues with the roof deck. Contact a licensed roofer to have ponding water areas inspected and corrected to extend the life of your new roof coating system. Previous leaks must be repaired and allowed to dry as per instructions below prior to application of Lanco **COOLGUARD™**. Do no use on roofs with a slope of less than 1/2 inch per foot. If used on roofs with slope of less than 1/2 inch per foot, Warranty will be void. Do not use on asphalt shingles. **GENERAL SURFACE PREPARATION: PRIOR TO START, IF YOU ARE UNFAMILIAR WITH THE PROPER CLEANING & REPAIR METHODS FOR YOUR TYPE OF ROOF, IT IS RECOMMENDED TO CONSULT A LICENSED ROOFING CONTRACTOR.**

Surface Preparation

1. Wash and Rinse: Make sure the roof is clean. Pressure wash the roof with a mild detergent and rinse thoroughly. Remove all dirt, grease and loose particles such as gravel, old coating, etc. Remove any mildew or fungus with a bleach solution of 2 parts water and 1 part bleach. If needed use a scrub brush with a long handle. **CAUTION – Read bleach warning labels. Wear rubber gloves and safety glasses. Rinse thoroughly and allow to dry.**
2. Repair: with a putty knife, apply **SILICONIZER™ CRACK FILLER** and **FIBER-GLASS PATCHING WEAVE** over any holes, dents, grooves, screws, flashing transitions, seams, crack and penetrations as leaks must be repaired prior to applying Lanco **COOLGUARD™**. All repairs to roof prior to coating must be made to match the existing slope of 1/2 inch per foot or greater. Concrete surfaces, use a good quality masonry cement mixed with Lanco **BONDING AGENT** according to label instructions. Rusty metal must be cleaned with a wire brush and primed with Lanco Red Oxide Primer or equivalent. Replace any loose fasteners or screws. Make sure cracks, seams and flashing are clean and dry. With a putty knife, apply Lanco **SILICONIZER™ CRACK FILLER** and **FIBER-GLASS PATCHING WEAVE** over cracks, seams, flashing, screws and other penetrating objects.
3. Prime: Be certain all surfaces are properly rinsed and dry prior to applying coating. In most cases, a primer is not needed. However, a primer is recommended for bare uncoated concrete, chalky surfaces or rusty metal. For bare concrete and

chalky surfaces, use Lanco **100% ACRYLIC ROOF** and **WALL PRIMER SEALER** or equivalent. For rusty metal, use Lanco **RED OXIDE PRIMER** or equivalent.

General Application

Apply with a heavy nap roller or airless sprayer in two (2) coats; allow 24 hours dry time between each coat. Apply only at temperatures above 50°F. Do not apply if temperature is expected to drop below 50°F before the coating has completely dried. Do not apply if roof surface is above 100 degrees F. If roof is too hot, spray with water, allow to dry and recoat before surface temperature rises above 100 degrees F. Each coat should be applied in a perpendicular direction from previous coat. Allow 24 hours dry between coats.. Do not apply if rain is forecast within 24 hours. Do not apply after 4 PM. **NEVER THIN OR DILUTE FROM FULL STRENGTH.** Color Tinting: Do not tint this product. However, if large quantities of tinted product are needed, contact manufacturer.

Meets Requirements for"

Product Type:	100% Acrylic/Urethane
Finish:	Flat (1°-3°) *Geometry 60°
Solids (%):	62 ± 2% by weight 55 ± 2% by volume
Weight/Gallon	9.28 ± 0.05 lbs. (4.21 ± 0.02 kg.)
Colors:	White
Drying Time:	To touch: 2 hours To re-coat: 24 hours
Sizes:	5 gallons 1 gallon
Thinning:	Is not recommended
Flash Point:	Non-Flammable
Viscosity:	115-125
Percent Pigment by Weight	32 ± 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.

S.D.S.: Available upon request.



Specific Application Recommendation

Water Ponding Areas: Areas where water may accumulate for more than 48 hours must be corrected by using roof drains or other means available. If surface level corrections must be made, use Lanco **ULTRA LEVEL™ UL-221** self-leveling underlayment or a cement mix with Lanco **CONCRETE ADMIXTURE CB-4000** or **CB-9000**. See **ULTRA LEVEL™ UL-221** product specifications. Important: If used on roof with slopes of less than 1/2 inch per foot, warranty will be void if not re-coated annually with one coat of **COOLGUARD™**.

Repair joints, crack and seams: Make sure joints, cracks, seams and flashing are clean and dry. With a putty knife, apply **SILICONIZER™ CRACK FILLER** or Lanco **POLYFLEX** one-part urethane sealant and a polyester weave over cracks, seams, flashing and around any standing objects about 2 inches to both sides, and let dry for 24 hours before coating.

Concrete roofs: Repair holes or any weakened areas of concrete surface with good quality masonry cement using Lanco **CB-4000** or **CB-9000** Admixture. Apply concrete mix and allow to cure.

Metal roofs: Remove rust and prime non-galvanized metals with Lanco **METAL MASTER PRIMER**. For galvanized metals, use Lanco **SUPER GALVANIZED PRIMER SG-664**. Replace loose fasteners. Old fasteners must be covered with Lanco **SILICONIZER™ ELASTOMERIC CRACK FILLER** or Lanco **POLYFLEX** one-part urethane sealant, and let dry for 24 hours before coating.

Polyurethane foam roofs: Make sure surface is in good condition – free of holes and cracks.

100% Silicone Roof Coatings: Do not use over 100% Silicone coatings.

Asphalt membrane and built-up roofs: Remove all loose mineral gravel and clean roof thoroughly. Repair cracks and joints with Lanco **SILICONIZER™ ELASTOMERIC CRACK FILLER** and a polyester weave. Apply one coat of Lanco **AQUA-PROOF™ MD-863** to the entire roof and let dry 24 hours, then apply two coats of Cool Guard to the entire roof. Do not use on pebbled gravel roofs.

Asphalt shingles: Do not use on shingle roofs.

Application

ROLLER APPLICATION: Apply with a Lanco 3/4" Nap Rough Surface Roller PA-568 or equivalent. Wait 24 hours between coats. Apply only when the air and surface

temperature are above 50 degrees F. (10 degrees C.). Do not apply if temperature is expected to drop below 50 degrees F. (10 degrees C.) within 24 hours of application.

At least two full coats are generally needed to achieve the recommended film thickness. Always apply coats in different directions. Never thin or dilute from full strength.

SPRAY EQUIPMENT: Use airless pump with pressures of 1500-2000 PSI. A fluid delivery of 1-2 gallons per minute with a spray tip size of 0.026 – 0.035 will be adequate. The hose should be at least 3/8th inch inside diameter, and should be of the high pressure rated type. If the hose length is more than 50 feet, a larger inside diameter will be required.

CLEAN UP: Clean rollers or equipment after use with warm, soapy water. If product has dried, clean tools with mineral spirits or other paint thinner.

DRYING TIME: Product will dry to touch in approximately two hours. Drying time is controlled by thickness of applied coating, relative humidity and ambient temperatures. Allow 24 hours between coats.

PRECAUTIONS: Do not allow product to freeze. Do not store at temperatures above 105 degrees. Protective clothing and eyewear should be used during application of this product. Ensure that lid is tight and pail is upright and secure before transporting. Do not allow pail to roll as this may cause lid to 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 spills.

COVERAGE: For all substrates, apply at least two coats, each at 50 square feet per gallon. The total coverage for all coats needs to be at least 25 square feet per gallon. Per coat, 50 sq. ft. per gallon coverage will give 32 wet mils and 17.6 dry mils of film thickness. Twenty five square feet per gallon will give 35 mils of dry film thickness.

Warranty

25 YEARS LIMITED WARRANTY: Lanco warrants only that this product is free of defects, since many factors which affect the results obtained from this product (such as weather, workmanship, equipment used and prior conditions of substrate) are beyond our control. We will replace at no charge any product proven to be defective within 25 years of purchase, provided it has been applied per manufacturer's specifications. To take effect, this warranty must be activated by mailing proof of purchase, name

and address to the following address: Lanco, 600 Mid Florida Drive, Florida 32824. This warranty is non-transferable. To file a claim under this warranty you must send a notice of claim in writing to Lanco within 30 days of discovery. No claims under this limited warranty will be honored unless Lanco is notified of the alleged failure of the product, in writing, and is given the opportunity to inspect the claimed failure before repairs are made. Any repairs made with other than the appropriate Lanco products before such notification will render this warranty void. With a reasonable time after the proper notification and proof of product defect, Lanco will provide, free of charge, enough roof sealer to recoat the affected area. This limited warranty is the exclusive and sole remedy available to the purchaser. What is not covered by this warranty?: Lanco does not warrant and shall not be liable for damages arising out of purchaser's failure to apply the roof coating in accordance with our instructions, disasters such as fire, flood, wind, lightning, structural defects and acts or causes beyond our control, including the negligence of any person and any other abuse or misuse of the product by purchaser. Lanco is not responsible for property or other consequential damages or any labor costs incurred in the original or replacement application. There are no warranties, which extend beyond the description on the face hereof. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. This warranty does not apply to commercial jobs, for these purposes call Lanco at 407-240-4000.

CAUTION! Harmful if swallowed. Contains Acrylic and Urethane Resins. In case of eye contact, flush thoroughly with water. If swallowed, do not induce vomiting. **CONSULT A PHYSICIAN IMMEDIATELY. USE ONLY WITH ADEQUATE VENTILATION.** Adequate ventilation required when sanding or abrading the dried film. Always use (NIOSH/MSHA TC21C or equivalent.) Goggles are recommended while handling the product. **KEEP OUT OF REACH OF CHILDREN.**

Prior to use refer to S.D.S. for safety data. For chemical Emergency call CHEMTREC 1-800-424-9300



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