



# 100% ACRYLIC SILICONE ELASTOMERIC ROOF SEALER

PROFESSIONAL GRADE / SUPERIOR ADHESION

ULTRA SILICONIZER TECHNICAL DATA			
Type:	One component 100% acrylic silicone	Storage conditions:	Store between 40°F and 90°F
Drying Time (ASTM D 1640): 75°F and 50% RH	Tack free, minutes:	45	Full Cure 7 (seven) days
	Finger tack:	50	
	Zapon tack:	77	
	Dry Hard, minutes:	112	
	Dry Through, minutes:	188	
Application temperature:		Min. +45°F to 105°F (Ambient) Min. +40°F to 130°F (Surface)	

PROPERTY	ASTM TEST METHOD	RESULT	ASTM D 6083 REQUIREMENT
<b>Liquid Requirements (Table 1)</b>			
Brookfield Viscosity @ 73.4°F, cps	D 2196	18,000	12,000 - 85,000
Viscosity @ 73.4°F, KU	D 562	102	85 - 141
Volume Solids, %	D 2697	51.4	>50
Weight Solids, %	D 1644	66.5	>60
<b>Film Properties (Table 2)</b>			
Initial Tensile Strength @ 73°F, psi	D 2370	273	200 min.
Initial Elongation @ 73°F, %	D 2370	239	100 min.
Permeance (20 mil dry film, 73.4°F/50% RH, Inverted), perms	D 1653	28.3	50 max.
Water Swelling, Mass %	D 471	19.9	20 max.
Wet Adhesion to galvanized metal, pli	C 794 / D 903	5.4	
Wet Adhesion to EPDM, pli	C 794 / D 903	3.3	2.0 min.
Wet Adhesion to asphalt shingles, pli	C 794 / D 903	2.9	2.0 min.
Wet Adhesion to concrete, pli	C 794 / D 903	6.1	2.0 min.
Wet Adhesion to SPUF w / Primer <sup>1</sup>	C 794 / D 903	3.8	2.0 min.
Tear Resistance (Die C), lbf/in	D 624	83.5	>60
Fungi Resistance, rating	G 21	0	0 max.
<b>Film Properties after 1,000 Hrs Accelerated Weathering (Table 2)</b>			
Elongation @ 73°F, %	D 2370	169	100 min.
Low Temperature Flex, 1/2" mandrel, -15°F	D 522	Pass	Pass
Appearance after 1,000 hrs accelerated weathering	D 4798	Pass	No Cracking or Checking

Note 1: Primer: Lanco %100 Acrylic Roof and Wall Primer

**COVERAGE:**

Surface	Area	1st coat	2nd coat	3rdcoat	4th coat	Total System
Metal Roofs	100 sq./ft. per gallon	16 wet mils / 8.2 dry	16 wet mils / 8.2 dry	-----	-----	32 wet mils / 16.4 dry
Wood Surfaces	100 sq./ft. per gallon	16 wet mils / 8.2 dry	16 wet mils / 8.2 dry	-----	-----	32 wet mils / 16.4 dry
Concrete Surfaces	50 sq./ft. per gallon	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	-----	-----	64 wet mils / 32.8 dry
Built-up Roofs	50 sq./ft. per gallon	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	-----	-----	64 wet mils / 32.8 dry
General Surfaces	50 sq./ft. per gallon	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	-----	-----	64 wet mils / 32.8 dry
Polyurethane Surfaces	50 sq./ft. per gallon	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	-----	-----	64 wet mils / 32.8 dry
Asphalt Shingles	50 sq./ft. per gallon	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	32 wet mils / 16.4 dry	128 wet mils / 65.6 dry

**Note:** In order to obtain a commercial warranty from Lanco® for the application of a Ultra Silconizer™ roof coating system, you must first consult with Lanco® in order to have the correct roof coating system recommendation for your particular need.



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**ULTRA SILICONIZER™**



**SAVES ENERGY:** • 78% Sun Reflectivity / ASTM C 1549  
 • 90% Heat Emissivity / ASTM C-1371

## LANCO® ULTRA SILICONIZER™

Lanco Ultra Siliconizer is a 100% acrylic silicone roof and wall sealer. It is a one component elastomeric sealer that will adhere tightly to many surfaces and provide you with a thick, high performance and 100% water and weather resistant seal, in most cases, without the aid of a primer. Lanco Ultra Siliconizer dries extremely fast through a process of transition, taking half the time it would take regular sealers to dry. It will significantly lower the temperature of your building by reflecting 78% of all sun rays and by eliminating 90% of the heat received. It will not crack, peel or blister despite the most severe weather conditions or total joint movement.

### FEATURES THAT OTHER ELASTOMERIC COATINGS WILL NOT GIVE YOU

- 100% acrylic silicone technology
- High UV rays reflectance
- High ozone resistance
- Provides a cool roof and lowers inside temperatures
- Excellent wind uplift resistance
- Salt spray resistant
- Good vapor permeability allowing the substrate to breathe
- Excellent dirt pick-up resistance
- Water-ponding resistant
- Excellent mildew and algae resistant film
- Ultra fast dry technology
- Applies blue, dries ultra white
- In most cases, no primer needed
- Low VOC roof coating

### ELASTOMERIC COATING WITH MANY USES

- As a flat or sloped roof waterproofing coating for metal, polyurethane, concrete, EPDM, asphalt, tile or wood roof
- As an energy efficient roof sealer
- As a roof sealer to extend the life of your roof
- To insulate and reduce internal temperatures



## PROVIDES BETTER ADHESION TO ROOF AND WALL SURFACES

In laboratory tests, Ultra Siliconizer proved its outstanding properties in adhesion-in-peel tests, exceeding every standard (per ASTM C 794 specifications)<sup>1</sup> to a wide variety of substrates. This assures you many years of solid protection on surfaces such as:

- Conventional bituminous built-up roofs
- Polyurethane foam • Concrete
- Aged galvanized metal
- Bonded tar and gravel
- E.P.D.M. • Hypalon
- Asphalt shingles
- Stucco • Wood • P.V.C.
- Metal • Tiles

Property	ASTM Test Method	Result	ASTM D 6083 Requirement
<b>Film Properties (Table 2)</b>			
Wet Adhesion to galvanized metal, pli	C 794/D 903	5.4	2.0 min
Wet Adhesion to EPDM, pli	C 794/D 903	3.3	2.0 min
Wet Adhesion to asphalt shingles, pli	C 794/D 903	2.9	2.0 min
Wet Adhesion to concrete, pli	C 794/D 903	6.1	2.0 min
Wet Adhesion to SPUR/Primer	C 794/D 903	3.8	2.0 min

### STAYS WHITER LONGER

From the moment of application, Ultra Siliconizer gives you a strong and thick monolithic membrane that has been formulated using a new and revolutionary technology of ultra small particle sized molecules tightly bonded together which prevent dirt to become embedded in the surface. Given its high content of highly reflective pigments, it will initially reflect 78%<sup>2</sup> of all sunrays and eliminate 90%<sup>3</sup> of all the heat it receives. This revolutionary technology allows the finish to stay whiter than competing products, maintaining an average solar reflectance of 84%<sup>8</sup> three years after its application (as independently tested, ASTM C 1549). This ensures a long-term advantage versus other elastomeric coatings available in the market.



After 3 years of service, side by side comparison shows the superiority of Lanco Ultra Siliconizer as a whiter reflective coating (left exposure) to other acrylic or acrylic copolymer elastomeric coating (right exposure).

Material ID	ASTM Test Method	Result, Solar Reflectance, Air Mass = 1.5					
Specimen No.		1	2	3	Avg.	SD	95% CI
RC-905	C 1549	0.782	0.780	0.778	0.78	0.002	0.005

Material ID	ASTM Test Method	Emissance, ε					
Specimen No.		1	2	3	Avg.	SD	95% CI
RC-905	C 1371	0.90	0.90	0.89	0.90	0.006	0.014

There are numerous reasons why reflective coatings deteriorate over time. Chief among them is the growth of mildew and fungi on the film of the applied product. Ultra Siliconizer will stay whiter and cleaner than competing coatings for a longer period of time due to its superior resistance to such growths, as proven in laboratory tests. Its fungi resistance rating is 0 (per ASTM G 21)<sup>4</sup>.

Property	ASTM Test Method	Result	ASTM D 6083 Requirement
<b>Film Properties (Table 2)</b>			
Fungi Resistance, rating	G 21	0	0 max



### TESTED FLEXIBILITY THAT WILL ALLOW ROOF MOVEMENTS AND BRIDGE CRACKS

Roofs at any given moment are subject to structural movements. In addition, even the highest quality roofing substrates have small hairline cracks. Lanco® Ultra Siliconizer, with a proven initial elongation up to 239% (ASTM D 2370)<sup>5</sup> and a tensile strength of 273 PSI (ASTM D 2370)<sup>5</sup>, will perfectly accommodate for these movements and additionally will bridge these cracks long after application by covering them completely with just two, properly applied coats and, if required, primed.

Property	ASTM Test Method	Result	ASTM D 6083 Requirement
<b>Film Properties (Table 2)</b>			
Initial Tensile Strength @ 73°F, psi	D 2370	273	200 min
Initial Elongation @ 73°F, %	D 2370	239	100 min

Ultra Siliconizer will expand and contract close to its original dimensions along with the surface to prevent the coating from wrinkling or breaking. The coating's film will even stay flexible in freezing weather (per lab results ASTM D 522, as low as -15°F)<sup>6</sup> without losing its flexibility.

Property	ASTM Test Method	Result	ASTM D 6083 Requirement
<b>Film Properties after 1000 Hrs Accelerated Weathering (Table 2)</b>			
Low Temperature Flex, 1/2" mandrel, -15°F	D 522	Pass	Pass

Side by side comparison shows the superiority of Lanco Ultra Siliconizer to other elastomeric coatings as roof sealer for roofs with movement and cracks. After two months, the other roof coating applied to the top half of the crack failed completely. In contrast, Ultra Siliconizer, which was applied to the bottom half, remained intact after a full year of exposure with temperatures ranging from 0°F to 100°F.

### MEETS 100% OF FEDERAL SPECIFICATION TT-C-555B AS AN EFFECTIVE WATERPROOFING COATING

- Lanco Ultra Siliconizer will effectively seal and waterproof your roofs and walls, eliminating any leaks or humidity completely from your roof.
- In laboratory tests performed on resistance to wind driven rain, Ultra Siliconizer did not allow the substrate to gain any weight at all (TT-C-555B)<sup>7</sup>.
- This will guarantee a coating that will protect your structure for many years against leaks and humidity.

Property	Federal Test Method	Result	TT-C-555B: Section 4.4.7 Requirement
Resistance to Wind Driven Rain	TT-C-555B	Pass	Pass
Weight gain of block, lb	TT-C-555B	0	<0.2

## CERTIFIED ENERGY SAVING COATING



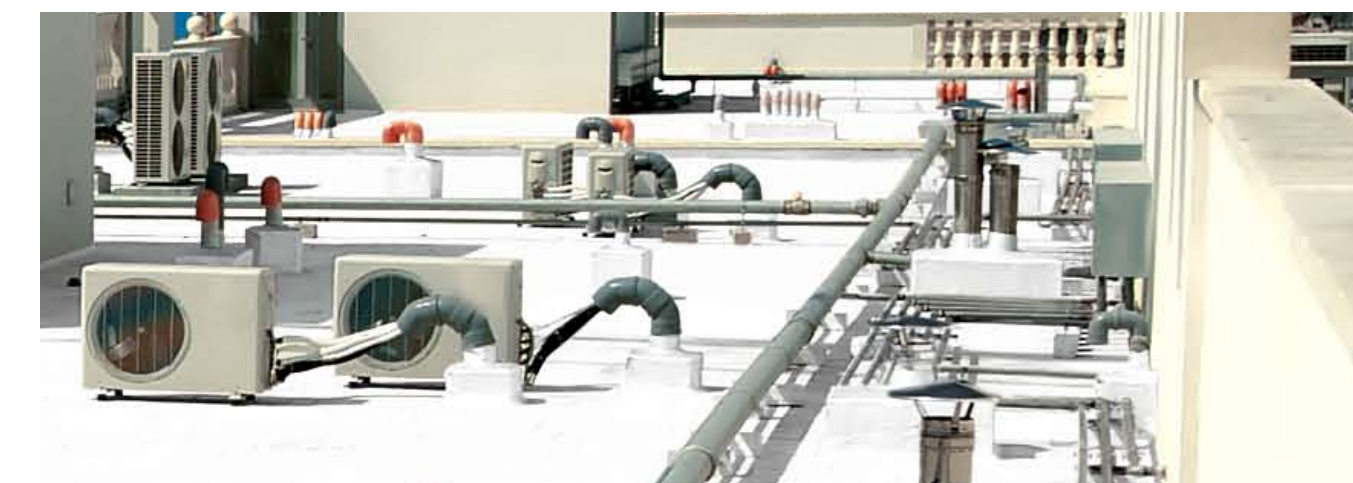
Lanco Ultra Siliconizer is an Energy Star certified roof coating that will provide you many years of an energy efficient structure, dramatically lowering internal temperature, which require less energy consumption. Test results performed in three major US cities show that Ultra Siliconizer will provide an initial solar reflectance of 78%\*, with a maintained reflectance after 3 years of 84% (ASTM C 1549)<sup>8</sup> and the elimination of 90% (ASTM C 1371)<sup>3</sup> of all the heat received.

Material ID	ASTM Test Method	Result, Solar Reflectance, (r) Air Mass = 1.5					
Specimen No. Coating, Job No., Location		1	2	3	Avg.	SD	95% CI
RC-905-1 Orlando	C 1549	0.831	0.832	0.822	0.83	0.006	0.014
RC-905-2 Orlando	C 1549	0.831	0.835	0.832	0.83	0.002	0.005
RC-905-3 Orlando	C 1549	0.830	0.829	0.826	0.83	0.002	0.005
RC-905-1 Miami	C 1549	0.847	0.843	0.850	0.85	0.004	0.009
RC-905-2 Miami	C 1549	0.851	0.845	0.845	0.85	0.003	0.009
RC-905-3 Miami	C 1549	0.854	0.840	0.849	0.85	0.007	0.018

\*Initial reflectance values are shown lower than the maintained value due to the fact that the coating is blue at moment of application, turning ultra white after 7 days of exposure to sunlight.

### CERTIFIED AS HIGH PERFORMANCE ELASTOMERIC COATING

Lanco Ultra Siliconizer surpasses all liquid and physical film properties required by the Miami-Dade County.



## VERSATILE COATING SYSTEM

Lanco Ultra Siliconizer is ideal for all kinds of waterproofing applications over many types of roofs and walls such as metal, concrete, asphalt, stucco, tiles, wood, EPDM, hypalon, brick and PVC surfaces. Ultra Siliconizer comes in an ultra white finish and numerous factory made colors made to order.

### A 1,2,3 PROFESSIONAL SYSTEM

Lanco Ultra Siliconizer is an easy to apply system:

1. Easy to apply, trowable mastic to level off water ponding areas (if required)
  - \*If needed apply elastomeric crack filler mastic
2. Easy to apply blue primer
  - + polyester membrane (if required)
3. Ultra white reflective top coat



### EASY TO APPLY

Lanco Ultra Siliconizer waterproofing system comes in a soft, silky, non stick liquid that spreads freely and smoothly at the recommended spreading rate, using an airless sprayer or roller.