



# Siliconizer 1000™ RC-1062

## 100% Silicone Roofing Membrane

### Description:

Lanco® Siliconizer™ 1000 is a premium 100% silicone, moisture-cure coating designed to waterproof, reflect the sun's heat and UV rays as well as protect many types of roofs. While suitable for use in all climates, the 100% silicone chemistry is especially suited for extreme tropical environments, which are exposed to some of the hottest and wettest weather with intense UV exposure. It is especially designed to maintain maximum reflectivity of heat and UV rays as it ages. Its moisture-cure chemistry creates a very aggressive chemical bond with the roof, which allows for permanent ponding water resistance, extreme durability, and superior capabilities of sealing and protection.

### Meets Requirements for:

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

- Superior leak protection
- Easy to apply
- Wide application window
- Weatherability
- Long-lasting
- Resistance to ponding

### Performance:

|   |                         |
|---|-------------------------|
| Tensile Strength<br>ASTM D 2370             | 244 psi@73°F            |
| Elongation<br>ASTM D 2370                   | 187% @ 73°F             |
| Reflectivity<br>ASTM 1549                   | .87 initial<br>.82 aged |
| Emissivity<br>ASTM C 1371                   | .90 initial<br>.89 aged |
| Solar Reflectance Index SRI:<br>ASTM E 1980 | 109                     |

### Uses:

Coating can be used on many different commercial or residential roof substrates to reflect the sun's heat and UV rays, as well as to help seal and protect the surface. It works well on low slope roofs and is suitable for pitched roofs. Acceptable roof types include: • Aged asphalt roofs, including Built-Up Roofing (BUR) and Modified Bitumen (MB) • Aged single-ply roofs, including EPDM, TPO, PVC, and Hypalon® roofs • Spray Polyurethane Foam (SPF) roofs, Metal roofs • Concrete roofs • Recoating previously coated roofs • RV, trailer, and mobile home roofs. Not recommended over shingles of any kind.

### Technical Data:

|                          |   |
|--------------------------|---|
| Product Type:            | 100% Silicone   |
| Solids (%):              | 96 ± 2% by weight<br>93 ± 2% by volume  |
| Weight/Gallon:           | 12.1 ± 0.05lbs.<br>(4.6 ± 0.02kg.)  |
| Color:                   | White   |
| Cure Time:<br>ASTM D1640 | Min. 2 Hrs @ 100°F (38°C)<br>& 90% RH<br>Max. 8-12 Hrs @40°F (4°C)<br>& 20% RH            |
| Coverage:                | Approximately 320 square feet per pail.<br>Approximately 100 square feet per 1.5 gallons. |
| Dry film thickness (DFT) | Minimum of 22 mils.<br>Coverage varies depending on surface texture and porosity.         |
| Can Sizes:               | 5 gallons   |
| Thinning:                | Is not recommended  |
| Flash Point:             | >105°F (41°C)   |
| VOC:<br>EPA Method 24    | <50 grams/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.

### Surface Preparation:

All surfaces to be coated must be clean as described below, dry, and paintable. It may be necessary to power wash and prime to enhance adhesion. Repair all existing defects, such as splits, cracks, blisters, deteriorated flashing, cracked metal edging, and any other defects affecting the water-tightness of the roof. As a preventive measure, seal all roof penetrations, curbs, flashings, transition areas, areas where dissimilar materials intersect, and other areas that could leak with Siliconizer™ Crack Filler. Ensure all roof drains and gutters are clean. Before coating the roof, use a pressure washer or high-pressure nozzle and water hose to wash the roof with a non-filming detergent, such as TSP or TSP substitute. Use appropriate pressure and take caution not to inject water into the roof substrate during washing. In areas with stubborn dirt, grease or other contaminants, use a stiff bristle brush or broom to scrub the areas clean with additional water and non-filming detergent. Treat algae or moss. The most effective method of cleaning algae and moss from a roof is with 1:1 mix of laundry strength liquid bleach and water. Apply with a sprayer and allow the solution to dwell on the roof surface for 15 to 20 minutes, and then rinse thoroughly with low-pressure water. Extended dwell times may be necessary; however, avoid letting the solution dry completely as this may prevent complete rinsing. Take proper precautions to protect landscaping and surrounding areas from the bleach solution. Use appropriate protective equipment when working with bleach. In severe cases, it may take more than one bleach treatment to kill all of the moss. Give the roof a final rinse before application. Using a leaf blower or broom, clear any remaining dust, dirt, debris, and foreign material that may prevent proper adhesion. Apply a test area of coating over the existing membrane to verify absence of bleed-through and proper adhesion to membrane prior to start application. On metal roof, remove rust by wire brushing.

### Mixing & Application:

**MIXING:** Coating may settle during storage. Mix well prior to and during use with a drill and mixing paddle. Use a minimum 3" diameter mixing paddle or hand mix with a suitable paddle until consistent viscosity is achieved.

**APPLICATION:** Coating should only be applied to a clean, dry, and fully prepared roof substrate as described above. It may be applied with a 6" to 1" nap lint-free roller, brush, or commercial airless spray rig. After opening the container, try to use it up as soon as possible. Keep containers covered and sealed at all times during use, when practical. If a skin forms in the container, simply remove the skin, mix the product, and use the rest. It should be applied in one coat smoothly and evenly over the entire roof surface, including parapet walls at a minimum 1.5 gallons per 100 square feet. Dry film thickness (DFT) should be a minimum of 22 mils. Coating must be evenly applied and pin-hole free. On steep-slopes, rough, or aged surfaces, additional coats may be required to obtain uniform, consistent thickness. Ensure coating is fully cured prior to additional coating installations. Cure times generally require a minimum of 2-6 hours, depending on weather conditions. Complete additional coats within 48 hours. Waiting longer than 48 hours may require initial coat to have to be washed prior to application of additional coats. Apply subsequent coats perpendicular in fashion to the previous coat. Polyurethane foam should be coated within 24 hours of application. New concrete roofs must be allowed to cure for a minimum 28 days before coating.

**Commercial Airless Spray Rig:** If spraying, a commercial airless spray rig capable of producing a minimum of 3500 PSI at the spray gun tip is required. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump to prevent cavitation. Always use components rated for pump pressure. Hoses should be Buna-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of .75" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with a reverse-a-clean spray tip, having a minimum orifice of 0.030 and a 50o fan tip. Do not use hoses that have been used for acrylics because the liners absorb moisture and initiate the silicone cure process.

**COVERAGE:** Approximately 320 square feet per pail (approximately 100 square feet per 1.5 gallons). Dry film thickness (DFT) should be a minimum of 22 mils. Coverage varies depending on surface texture and porosity.

### Precautions:

- Not recommended for continuous immersion service, for use in cold storage applications without a vapor retarder, or directly over asphaltic surfaces without a sealer.
- Silicone coatings are slippery when wet. Exercise caution when walking on a roof under these conditions.
- Avoid breathing silicone vapors or spray mists. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. This product is not recommended for interior use. Additional care must be taken to prevent rooftop HVAC equipment from introducing silicone vapors into interior areas during application.

- Keep cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks.
- It is not recommended to store this material at temperatures exceeding 100°F (38°C). For maximum shelf life, store between 40°F and 70°F (4°C and 21°C). Higher temperatures will reduce shelf life.
- Remove any skin prior to mixing the material. Once container is opened, all product should be used. Container cannot be resealed without product skinning or curing inside container. Always keep covered and protected from the elements. When transporting this product, ensure that the lid is tight and the containers secured.

**WARNING!** Harmful if swallowed. Suspected of damaging fertility or the unborn child. May cause long lasting harmful effects to aquatic life. KEEP OUT OF REACH OF CHILDREN. PREVENTION: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Use personal protective equipment as required. Rinse mouth. RESPONSE: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF EXPOSED OR CONCERNED: Get medical advice/attention. DISPOSAL: Dispose of contents/container in accordance with existing federal, state, and local environmental control laws. NSF Protocol P151: Number of coats: 1-3. Maximum field use, dry film thickness (mils): 30 (maximum 15 per coat). Recoat cure time/Temperature: 24 hours at 100o F (38°C). Final cure time / temperature: 48 hours at 100°F (38°C). PRECAUTIONS: Use extreme caution when applying and walking on silicone coated surfaces. Silicone coated surfaces are extremely slippery and can create a fall hazard resulting in death or serious injury. Keep away from food. Not recommended for application at temperatures below 35°F (2°C) or if rain is expected in less than 15 minutes of application. Lower temperatures and/or less humidity will typically result in slower cure times. When transporting, make sure the pail is secured and the lid is tight to prevent spills. Store in a cool, dry, shaded location. Ensure lid completely sealed. SHELF LIFE: Unopened, 12 months from date of manufacture when stored in a cool, dry, and shaded location. Store locked up. CLEAN-UP: Clean-up of tools and spray equipment containing uncured material may be accomplished by cleaning or flushing with mineral spirits. SPRAY EQUIPMENT: This product cures by reacting with moisture and should not be left in spray guns, pump equipment, and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings, and seals. Equipment without these components will transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections potentially causing an increase in operating pressure and material flow restriction.

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

For more information on Lanco Siliconizer™ 1000 limited product warranty and liability disclaimer, please visit: [www.lancopaints.com/warranty](http://www.lancopaints.com/warranty).

