# 100% SILICONE

THERMOTEK®
ROOF COATINGS

THERMOTEK®
X99
ROOF COATING

**YOUR BEST**
**WATERPROOFING SOLUTIONS!**

A brand of
MBCC GROUP

# THERMOTEK® X99 100% SILICONE

**THERMOTEK® X99 SILICONE** is a high solids solvent-free single component elastomeric waterproof coating manufactured to provide long-lasting protection to your roof. Due to its high solar reflectance, this cool roof coating will not degrade, crack and/or chalk under even extreme UV exposure. Its superior weathering and waterproofing characteristics make **THERMOTEK® X99 SILICONE** a wise choice to defend your roof against harmful sunlight, severe storms, high winds and ponding water.

## ADVANTAGES

- Helps prevent and stop leaks
- 100% waterproof
- Excellent ponding water resistance
- Extends the life of the roof
- Increases a building's energy efficiency by reducing cooling costs
- Can be applied on a wide variety of substrates
- 1-coat application
- Eliminates the costly removal of preexisting membranes or coatings (as long as the membrane/coating is perfectly adhered)

## USE

THERMOTEK® X99 SILICONE is an ideal product for use as a maintenance and protective roof coating system over various substrates such as: metal, wood, spray polyurethane foam (SPF), modified bitumen membranes (granulated finish), acrylic and asphalt built-up roofing. *Please confirm with a Thermotek Technical Representative if the roof membrane is compatible with our silicone products.*

**NRCA considers ponding water on any roof as undesirable, and recommends that all roof systems be designed and built to ensure positive drainage. THERMOTEK® X99 SILICONE does offer excellent ponding water resistance, should it occur.*

# APPLICATION PROCESS

### CLEAN SURFACE

Roof surface must be clean, dry and free of any oil, grease, dirt and any other contaminants that may interfere with proper adhesion (pressure washing is recommended). Rusted areas shall be mechanically abraded and bare surfaces must be prepared and checked for compatibility. Follow our roof repair and restoration procedures and ALWAYS perform coating adhesion tests (pull tests) before doing the entire roof.

### PRIME

For an optimal performance we recommend priming the surface with THERMOTEK® SILICONE PRIMER.*

**When used over asphalt substrates, the THERMOTEK BLEED BLOCK PRIMER can be used to avoid yellowing of the silicone over time.*

### ROOF DETAILS

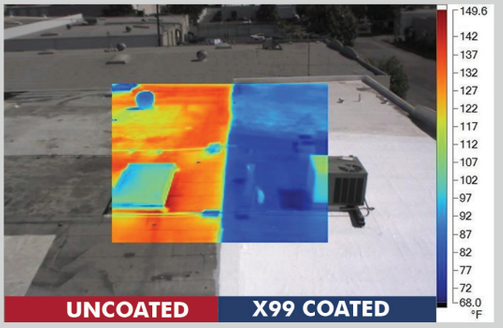
Address all the roof's critical points with THERMOTEK® SILICONE MASTIC and POLYESTER MESH.

### APPLY COATING

Apply a single coat of THERMOTEK® X99 SILICONE using a brush, squeegee or ¾" nap woven roller. Cover the ENTIRE roof surface including expansion joint covers and flashings.

# COVERAGE RATE

Dry film thickness (DFT) of the THERMOTEK X99 SILICONE should be a minimum of 16 mils on smooth surfaces such as metal (approximately 100 square feet per 1 gallon). On other substrates, DFT should be a minimum of 24 dry mils (approximately 100 square feet per 1.5 gallons) resulting in a coverage of approximately 330 square feet per 5 gallon container. Coverage varies depending on surface texture and porosity.




# PROPERTIES

- High solar reflectivity and thermal emittance (≥88%)
- 97 ± 2% solids by weight and volume.
- Superior durability and color stability.
- Excellent water repellency.
- High resistance to heat, cold, snow and pollutants in the air.
- Available for flat and high slope/pitch roofs.

# THERMOTEK® X99 COMPLEMENTS

| PROPERTY | TEST METHOD | RESULT |
|---|---|---|
| VOC (G/L) | ASTM D-3960 | <10 |
| TENSILE STRENGTH LB/IN$^2$ (MPA) | ASTM D-412 | 200 (1.38) |
| ELONGATION % | ASTM D-412 | >200 |
| HARDNESS SHORE A | ASTM D-2240 | 38 |
| TOTAL DRYING TIME | ASTM D-1640 | 8 TO 24 HOURS |
| DRY TIME FOR WATER RESISTANCE | ASTM D-1640 | 1 TO 4 HOURS |

CRRC COOL ROOF RATING COUNCIL ®
RAPID RATINGS

**Rated Product ID #: 0734-0018**

| | Initial | Aged |
|---|---|---|
| Solar Reflectance | 0.87 | 0.71* |
| Thermal Emittance | 0.88 | 0.89* |

The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations.

***CRRC Rapid Ratings:** Interim laboratory-aged values that simulate naturally-aged values and will be replaced by the measured three-year naturally-aged values upon completion of the weathering process.

CRRC COOL ROOF RATING COUNCIL ® MEMBER

NATIONAL ROOFING CONTRACTORS ASSOCIATION MEMBER

energy ENERGY STAR PARTNER

CLASSIFIED UL

MIAMI-DADE COUNTY APPROVED

CAN BE USED TO COMPLY WITH 2016 TITLE 24 PART 6 COOL ROOF REQUIREMENTS

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www.thermotekgroup.com