

100% SILICONE



**YOUR BEST
WATERPROOF
SOLUTION!**

ROOF COATING



A brand of
BASF
We create chemistry

THERMOTEK™ X99 100% SILICONE



DESCRIPTION

THERMOTEK™ X99 SILICONE is a solvent free single component elastomeric waterproof 100% silicone coating with high solids content manufactured to provide long-lasting protection to your roof. It's superior weathering and water resistant characteristics make THERMOTEK™ X99 SILICONE the ultimate protection for ponding water.

BEFORE

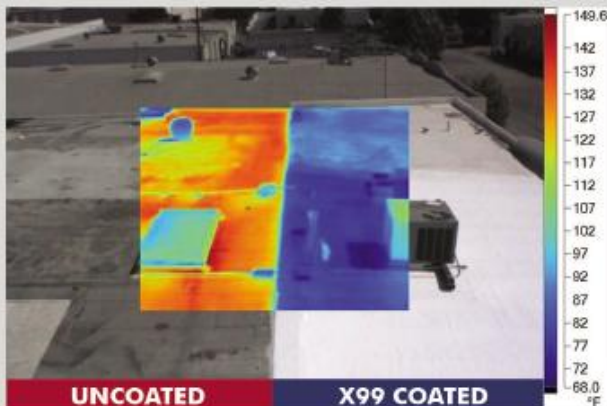


AFTER



ADVANTAGES

- ★ Prevents / Stops leaks.
- ★ Provides permanent waterproofing protection.
- ★ Extends the life of your roof.
- ★ Reduce electric energy consumption by making the air conditioning more efficient.
- ★ Eliminates usage of emulsions and polyester.
- ★ Optimal life expectancy to your roof by performing annual maintenance program.
- ★ Powerful ponding water resistance.
- ★ Avoid additional costs of replacing pre-existing membranes or coatings, as long as the membrane / coating is perfectly adhered.



PROPERTIES

- ★ 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.

For more information please visit our website:
<http://www.thermotekgroup.com>



USAGE

THERMOTEK™ X99 SILICONE is an ideal product for use as a maintenance roof coating system over various substrates such as: metal, wood, Spray Polyurethane Foam, Modified Bitumen membranes (granulated finish), acrylic and asphalt Built-Up Roofing, (please verify with our technical representatives if the membrane is compatible with our silicone products).

APPLICATION



CLEAN SURFACE

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



PRIME

For an optimal performance we recommend to prime the surface with THERMOTEK™ SILICONE PRIMER.*

*The use of THERMOTEK™ EPOXY PRIMER on the Silicone Roofing System could be optional. Its use is to avoid the yellowing of the silicone on asphalt substrates.



DETAILS

Review all CRITICAL POINTS over the surface and repair them with THERMOTEK™ SILICONE MASTIC and POLYESTER MESH.



APPLY COATING

Apply THERMOTEK™ X99 SILICONE all over with brush, squeegee and ¾" nap woven roller. Cover ALL the surface including expansion joint covers and flashings.

ROOF MARKING

Use the bellow chart to clearly establish the area to be covered by each 5 gallon bucket of THERMOTEK™ X99 SILICONE.

GALLON PER SQUARE	MILLS	SQUARE FEET PER 5- GALLON BUCKET ft ²	MARKED SQUARES*
1.5 GAL	@23 mils	@ 333 ft ²	18X18
1.75 GAL	@27 mils	@ 286 ft ²	17X17
2.00 GAL	@31 mils	@ 250 ft ²	16X16
2.5 GAL	@39 mils	@ 200 ft ²	14X14
2.75 GAL	@42 mils	@ 182 ft ²	13.5X13.5
3.00 GAL	@46 mils	@ 167 ft ²	13X13
3.25 GAL	@50 mils	@ 154 ft ²	12X12
4.00 GAL	@62 mils	@ 125 ft ²	11X11



*Dump and evenly squeegee and roll a 5-gallon bucket in marked squares listed above.

UV AND WEATHER RESISTANCE

THERMOTEK™ X99 SILICONE meets UV reflectivity requirements to form a high elastomeric roof coating that will not degrade, crack and/or chalk under even an extreme UV exposure.

Our silicone coatings offer a superb defense against harmful sunlight, severe storms and high winds providing your roof superior weathering protection.



PONDING WATER

NRCA considers ponding water on any roof as undesirable, and recommends that all roof systems are designed and built to ensure positive drainage. THERMOTEK™ X99 SILICONE offers a powerful ponding water resistance.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULT
WHITENESS	ASTM E-313	80 ± 2
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
WATER PERMEABILITY, PERMS	ASTM E-96	≤ 2.5 MAX
SOLAR REFLECTANCE INDEX	CRRC-1 STANDARD	110

 COOL ROOF RATING COUNCIL	Solar Reflectance	Initial	Weathered
	Thermal Emittance	0.87	Pending
	Rated Product ID Number	0018	
	Licensed Seller ID Number	0734	
Classification	Production Line		
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			



*THERMOTEK X99 SILICONE has a shell life of six months from the date of manufacture

APPROVALS AND CERTIFICATIONS

- ★ Cool Roof Rating Council (CRRC) Product ID # 0734-0018.
- ★ Meets the requirements of California Energy Commission Title 24.
- ★ Active member of NRCA.
- ★ Energy Star Partner.





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