

THERMOTEK™ ROOF COATINGS



THERMOTEK™ COOL ROOF

ENERGY EFFICIENT COATINGS

In the construction field of houses and commercial buildings, cool roof is a coating system that provides an elevated UV reflectance and high thermal emission, and thereby reduces heat transfer into the building.

Due to increasing population and energy consumption, Cool Roofing Systems have proven to be the most profitable and energy efficient way to waterproof and protect your assets. Seamless, easy to apply and clean up, our Cool Roofing Systems have superior physical properties.

The two basic characteristics that determine the "coolness" of a roof are solar reflectance (SR) and thermal emittance (TE).

- Solar reflectance: the fraction of solar energy that is reflected by the roof.
- Thermal Emittance: the relative ability of the roof surface to radiate absorbed heat.¹



THERMOTEK™ Professional Grade products are elastomeric coatings with exceptional durability and resistance to water. Our coatings form a durable membrane that reflects most of the heat of the sun giving exceptional resistance to degradation.

Our products protect surfaces from UV Rays temperature changes, weathering, surface damage as cracks, fissures, etc.

According to your needs, we offer various types of coatings Acrylic-Elastomeric Coatings.

¹For further information about cool roof characteristics and properties please visit: <http://coolroofs.org/resources/home-building-owners>

PRODUCTS

ACRYLIC ELASTOMERIC COATINGS



THERMOTЕК™ PLATINUM PLUS

Is a Professional Grade roof coating, manufactured with high quality 100% acrylic resin that releases sun's energy and heat away from the building.

Low in VOC, high solids content, non-flammable and with a high elongation percentage, THERMOTЕК™ Platinum Plus is a single component product that provides a total waterproof coating system.



THERMOTЕК™ GOLD PLUS

Is a Professional Grade roof coating, with high strength and durability properties which help to reduce drastically the roof temperature and protect it from leaks.

Water-based product, low in VOC, non-flammable, with high elongation percentage and elastomeric components, THERMOTЕК™ Gold Plus contains a high quality styrene-acrylic resin that provides excellent solar reflectance and thermal emissivity.



THERMOTЕК™ SILVER PLUS

Is a Professional Grade roof coating that cures to form a protective and flexible seamless membrane resilient to damage caused by UV rays, thermal shock and temperature changes.

This water-based product, low in VOC, non-flammable, with high elongation percentage and elastomeric components contains a high quality styrene-acrylic resin designed to seal roofs and maximize reflectivity.

COOL ROOF COMPLEMENTS



WASH



DURAMASTIC



PRIMER



METAL PRIMER



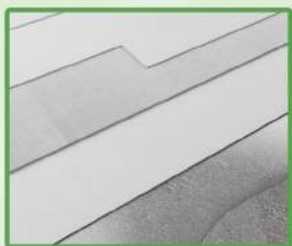
BASE COAT

ADVANTAGES & BENEFITS

Our roof coatings are suitable with common substrates found on the building industry:



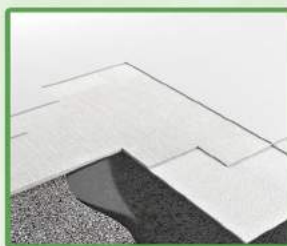
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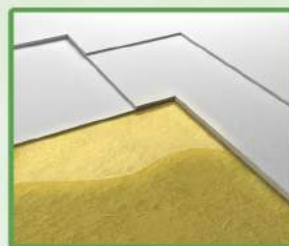
CONCRETE



METAL



ASPHALT



POLYURETHANE FOAM

→ INCREASE ENERGY SAVINGS

Total cooling costs will reduce significantly.

→ MITIGATE THE URBAN HEAT ISLAND EFFECT²

Cool roofs lower summertime peak electricity demand, air pollution, greenhouse gas emissions, heat-related incidents and solid waste generation.

→ PROLONG THE LIFE OF YOUR ROOFING SYSTEM

Our coatings minimize the dramatic roof expansion and contraction movements.

→ STRONG UV-RAY REFLECTION

THERMOTEK™ Professional Grade products provide an excellent protective barrier from damaging UV-Rays.

→ SUPERIOR PROTECTION AGAINST HUMIDITY

THERMOTEK™ coatings cure to moisture to form a resistant waterproof barrier.

APPLICATION PROCESS



SURFACE PREPARATION

The surface must be clean and free from dust, dirt, grease and oil (pressure washing with THERMOTEK™ WASH is recommended). Ponding areas must be brought into conformance.



PRIMER APPLICATION

Apply THERMOTEK™ PRIMER over the surface. If the coating system will be installed on metal roofings, previously apply THERMOTEK™ RUST PRIMER.



CRITICAL POINTS

Inspect the area including flashing areas, drip edges, cracks, seams, holes, etcetera, and repair them by placing POLYESTER MESH between 2 coats of THERMOTEK™ DURA MASTIC.



COATING APPLICATION

Proceed application on a warm sunny day in morning hours, to allow maximum cure time. Apply 2 full coats of THERMOTEK™ ACRYLIC ELASTOMERIC COATING and allow each one to dry completely.

²The term "Heat Island" describes built up areas that are hotter than nearby rural areas. <http://www.epa.gov/heatisland/>

PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	THERMOTЕК™ PLATINUM	THERMOTЕК™ GOLD PLUS	THERMOTЕК™ SILVER PLUS
		RESULT		
SOLAR REFLECTANCE	CRRC	0.89	0.89	0.87
SOLAR REFLECTANCE	CRRC	111	111	110
THERMAL EMMITANCE	CRRC	0.90	0.90	0.89
VOC	ASTM D 3960	<50 G/L	<50 G/L	<50 G/L
ELONGATION, %	ASTM D 2370	≤ 200	≤ 200	≤ 200
SOLIDS BY VOLUME, %	ASTM D 2697	50,0 ± 1	49,0 ± 1	42,0 ± 1
SOLIDS BY WEIGHT, %	ASTM D 1644	65,0	63,0	63,0

CERTIFICATIONS

- Meets the requirements of California Energy Commission Title 24, Section 118 (i) 3.
- Cool Roof Rating Council (CRRC) Product ID# 0734-0010.
- Miami Dade NOA 12-092110.
- UL Classified 790 Fire Resistance Class.
- Active member of NRCA.



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



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