

TECHNICAL DATA SHEET

THERMOTEK™ SILVER +PLUS

PROFESSIONAL GRADE
HIGH SOLIDS ELASTOMERIC
ROOF COATING

DESCRIPTION

THERMOTEK™ SILVER PLUS is a water-based elastomeric acrylic roof-coating with high volume solids offering a high quality 100% styrene-acrylic resin. Low in VOC, non-flammable and with a high elongation percentage, THERMOTEK™ SILVER PLUS is a single component coating that exhibits tremendous adhesion to the substrate providing a total roof coating system.

PROPERTIES

Physical Property	Test Method	Result
Appearance	INTERNAL	LIQUID
Type	INTERNAL	WATER-BASED ROOF COATING
Color	INTERNAL	WHITE
Solar reflectance	CRRC	0.87
Solar reflectance index	CRRC	110
Thermal emittance	CRRC	0.89
Viscosity, KU's	ASTM D-562	≤ 100
pH	ASTM E-70	9,0 +/- 0,5
VOC	ASTM D 3960	<50 g/l
Solids by volume, %	ASTM D 2697	42,0 ± 1
Solids by weight, %	ASTM D-1644	63,0
Density lb/gal (gr/ml)	ASTM D-1475	11,13 ± 0.1 (1.33 +/- 0.02)
Elongation, %	ASTM D 2370	≤ 200
Drying time for water resistance	ASTM D-1640	8 HOURS*
Total drying time	ASTM D-1640	12 HOURS*
Fungus resistance, rating	ASTM G-21	APPROVED
Tensile Strength, lb/in ² (MPa)	ASTM D-2370	≤ 200 (1.38)
Water permeability, perms	ASTM E-96	≥ 50
Flash point	INTERNAL	NON-FLAMMABLE

*Required time will increase depending on humidity.

SURFACE PREPARATION

For coating, the surface must be clean and dry, (pressure washing is recommended). Prior application, the surface must be prepared and verified for compatibility, if there is any loosely adhered coating this must be mechanically removed by wire brushing, sand blasting or scraping). If some areas hold excessive ponding water, they must be brought into conformance by installing proper drains. New asphalt shall be exposed to environmental conditions between 90 to 120 days before coating. Rusted areas shall be mechanically abraded and primed with THERMOTEK™ RUST PRIMER (deteriorated metal shall be replaced). Perform a coating adhesion test before doing the entire job. Inspect the area to be coated (including the flashing areas, drip edges, cracks, control joints, seams, chimneys, equipment and walls) and repair all cracks, breaks, splits and holes by layering POLYESTER MESH between 2 coats of THERMOTEK™ DURA MASTIC and form a barrier. Allow it to cure 24-36 hours before coating application.



ELASTOMERIC COATING

USAGE

THERMOTEK™ SILVER PLUS is designed to protect and waterproof various substrates including: Asphalt built-up, Modified Bitumen membrane, concrete, metal, Single-Ply and Polyurethane foam. THERMOTEK™ SILVER PLUS coating was developed for use in embedding in the POLYESTER MESH over the entire roof surface.

ADVANTAGES

- THERMOTEK™ SILVER PLUS:
- Gives up to 87% of solar reflectance.
 - Dramatically decrease building temperatures (inside and outside).
 - Prolongs roof expectancy life.
 - Available systems up to 10 year guarantee coverage.

APPROVALS AND CERTIFICATIONS

- Meets the requirements of California Energy Commission Title 24, Section 118 (i) 3.
- UL Classified 790 Fire Resistance Class A.
- Cool Roof Rating Council (CRRC) Product ID#0734-0010.
- Miami Dade NOA 12-0921.10.

CONTACT US

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APPLICATION TOOLS

THERMOTEK™ SILVER PLUS can be applied using brush, roller, conventional or airless spray (2000-3000 PSIS-.041 Type Size, 1-3GPM).

APPLICATION METHOD

Prior installation, surface must be clean. Apply on a warm sunny day in morning hours to allow maximum cure time. Do not apply when surface or air temperature is below 50°F (10 °C), or if rain or fog is expected within 48 hours of application. Apply 2 full coats and allow them to dry completely each one (drying time may vary depending upon different factors). **NOTE: for more information verify the application guide.**

COVERAGE

Depending on specifications, warranty and type of surface it will cover from 3 to 5 gallons per 100 sq. ft.

CAUTION:

THERMOTEK™ SILVER PLUS should not be installed over cold storage tanks or buildings where a vapor barrier is required. THERMOTEK™ SILVER PLUS will freeze at temperatures below 32 °F (0 °C), or when there is a possibility of temperatures falling below 40 °F (4.4 °C) within a 24-hour period after application. Cool temperatures and humid weather retard the cure. Do not apply if weather conditions will not permit the complete cure. THERMOTEK™ SILVER PLUS should never be exposed to ponding conditions. For better energy savings it should be cleaned yearly. NOTE: for proper handling refer to MSDS. For specific information on safety requirements refer to OSHA guidelines.

STORAGE

This product should be stored closed in a cool and dry place, preferably roofing. The storage temperature should be greater than 41 ° F (5 ° C) and below to 113 ° F (45 ° C). Shelf maximum storage is two years.



PACKAGING

5-gal bucket, 55-gal drum and 275-gal tote.

We as THERMOTEK GROUP guarantee that since our products are shipped from the production plant they will be free of manufacturing defects; all the recommendations contained herein follow tests we consider as reliable and are subject to change without prior notice. THERMOTEK GROUP does not assume any responsibility for coverage, performance on injuries resulting from storage, handling or use of our products. Liability, if any, is limited to product replacement, to the terms stated within the executed warranty, TDS V5 - 2016.05.

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