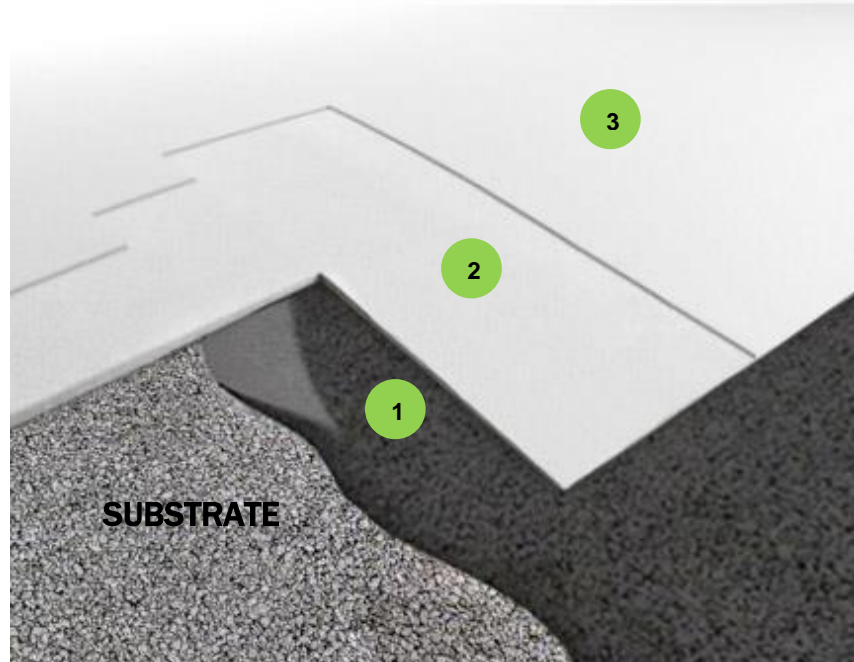


THERMOTЕК™ ACRYLIC ELASTOMERIC SYSTEM OVER MODIFIED BITUMEN AND/OR BUR MEMBRANE

ACRYLIC ELASTOMERIC COATING OVER MODIFIED BITUMEN AND SMOOTH BUILT-UP ROOFING MEMBRANE 3C-PR



1. THERMOTЕК™ PRIMER
2. THERMOTЕК™ ACRYLIC ELASTOMERIC COATING
3. THERMOTЕК™ ACRYLIC ELASTOMERIC COATING

COMPONENTS AND WEIGHTS

	Coat	Product	Coverage (100 sq. ft.)	Dry Weight Lb			Dry Mils		
				SILVER +	GOLD +	PLATINUM +	SILVER +	GOLD +	PLATINUM +
SYSTEM	1	THERMOTЕК™ PRIMER	1 gal	5.61 LBS/SQ			7.2 Mils		
	2	THERMOTЕК™ COATING	1.5 gal	9.35 LBS/SQ	10.87 LBS/SQ	11.51 LBS/SQ	10.35 Mils	12.07 Mils	12.3 Mils
	3	THERMOTЕК™ COATING	1.5 gal	9.35 LBS/SQ	10.87 LBS/SQ	11.51 LBS/SQ	10.35 Mils	12.07 Mils	12.3 Mils
	SYSTEM			26.31 LBS/SQ	27.35 LBS/SQ	28.63 LBS/SQ	27.90 Mils	31.34 Mils	31.8 Mils
CRITICAL POINTS	THERMOTЕК™ DURA MASTIC		Variable	Variable			Variable		
	POLYESTER MESH		Variable	Variable			Variable		
COMPLEMENTS	THERMOTЕК™ WASH		0.2 gal	Variable			Variable		

*Approximate measures.

PART 1 – GENERAL

1.1 SUMMARY

This document provides the specifications for the application of our product to roofing surface. These specifications should be used only as a general guide, with the addition of specific details as different job conditions. These tools include roofing products, coverage rate, installation procedures with THERMOTЕК™ Roofing Products and complementary products. Final determination of the fitness of the application of any THERMOTЕК™ Roofing Products shall not be made by anyone other than a THERMOTЕК™ Representative.

1.2 APPLICABLE PUBLICATIONS

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only:

- A. American Society for Testing and Materials Publication (ASTM).
- B. Underwriters Laboratories Inc. (UL).
- C. CRRC – Cool Roof Rating Council.
- D. California Building Standards Code - Title 24.
- E. THERMOTЕК™ Details, Drawings and Notes

1.3 QUALITY CONTROL

- A. Warranty: THERMOTЕК™ GROUP guarantees that since our products are shipped from the production plant they will be free of manufacturing defects and defective materials. Liability, if any, is limited to product replacement from the completion date of the work.
- B. The manufacturer: shall certify that the materials submitted have been used in like application and that they have been actively engaged in the manufacture of these materials for a minimum period of 10 of 15 years prior to submittals, as required. The manufacturer shall certify that the contractor is authorized and approved for the application of their materials.
- C. Applicator Qualifications:
 - 1) Applicators shall have a minimum of 5 years experience in the application of roofing materials.
 - 2) The manufacturer shall certify that the contractor possesses a current “Qualified Applicator” Certificate and that is authorized for the application of their materials.
 - 3) The applicator shall have general knowledge and understanding of roofing, as well for all THERMOTЕК™ Roofing Products for any given specified project.
 - 4) For all warranties, a firm which has complete business stability shall perform the work in this section: present a copy of certification upon request by the Architect or the owner.
 - 5) The installer, owner or Architect must review all the documents related to all critical points and check list.
 - 6) For different roofing details and/or terms and conditions for warranty, the installer, owner or architect must contact a THERMOTЕК™ Technical Representative. All issues about the roof must be resolved in writing.

1.4 SUBMITTALS

In the normal course of bidding, descriptive literature, technical data, and wet or dry samples of all proposed materials for their use under these specifications, shall be submitted upon request.

1.5 JOB CONDITIONS

To proceed with proper conditions, the applicator must be aware of the following:

- A. UV curing time for all THERMOTЕК™ Roofing Products is critical. The applicator must allow sufficient cure time for each product. Please be aware that outside temperatures will be a factor.
- B. Do not begin work if rain or heavy dew is expected within twenty-four to forty-eight (24-48) hours after application.
- C. Do not begin work if temperatures are expected to fall below 50 °F and increase over 104 °F during the installation.
- D. Consider that other environmental conditions such as humidity, mist, dew, extreme temperatures and condensation, can affect THERMOTЕК™ Roofing Products in an inconsistent way.
- E. This product has better drying with high humidity.

1.6 PRODUCT STORAGE AND HANDLING

All the time, the THERMOTЕК™ Roofing Products should be stored at a temperature above 40 °F, in a warm, dry, clean and well-ventilated area.

1.7. PROTECTION OF PROPERTY

The contractor shall take proper precautions to protect owner's property against damage and overspray. The use of shield boards, maskings and protective coverings shall be necessary. THERMOTЕК™ is not responsible for damages caused by the overspray of any of its products.

PART 2 – PRODUCTS

COMPONENTS AND WEIGHTS

	Coat	Product	Coverage (100 sq. ft.)	Dry Weight Lb			Dry Mils		
				SILVER +	GOLD +	PLATINUM +	SILVER +	GOLD +	PLATINUM +
SYSTEM	1	THERMOTOTEK™ PRIMER	1 gal	5.61 LBS/SQ			7.2 Mils		
	2	THERMOTOTEK™ COATING	1.5 gal	9.35 LBS/SQ	10.87 LBS/SQ	11.51 LBS/SQ	10.35 Mils	12.07 Mils	12.3 Mils
	3	THERMOTOTEK™ COATING	1.5 gal	9.35 LBS/SQ	10.87 LBS/SQ	11.51 LBS/SQ	10.35 Mils	12.07 Mils	12.3 Mils
	SYSTEM			26.31 LBS/SQ	27.35 LBS/SQ	28.63 LBS/SQ	27.90 Mils	31.34 Mils	31.8 Mils
CRITICAL POINTS		THERMOTOTEK™ DURA MASTIC	Variable	Variable			Variable		
		POLYESTER MESH	Variable	Variable			Variable		
COMPLEMENTS		THERMOTOTEK™ WASH	0.2 gal	Variable			Variable		

*Approximate measures.

Note: THERMOTOTEK™ ACRYLIC ELASTOMERIC COATING over the roof surface must be at least 90 days old. THERMOTOTEK™ PRIMER must be applied on areas with asphalt exposure and Modified Bitumen Smooth/Sanded membranes at a coverage rate of 1 Gallon per 100 square feet.

2.1 MATERIALS

A. SYSTEM

- THERMOTOTEK™ PRIMER
- THERMOTOTEK™ ACRYLIC ELASTOMERIC COATING

B. CRITICAL POINTS

- THERMOTOTEK™ DURA MASTIC
- POLYESTER MESH

C. COMPLEMENTS

- THERMOTOTEK™ WASH

2.2 PRELIMINARY DETAILED INSPECTION

Inspect the preliminary work area and flashing details for problem areas (e.g. gaps, cracks, fishmouths, air pockets, etc.) to ensure the work be satisfactorily completed. Inform project Architect and THERMOTOTEK™ Technical Representative when all preliminary work and flashing details are completed, before the installer gets ready to proceed with application of THERMOTOTEK™ ACRYLIC ELASTOMERIC SYSTEM OVER MODIFIED BITUMEN AND/OR BUR MEMBRANE. Allow a minimum of two weeks for the interim inspection. Any final roofing installation prior to this interim inspection is subject to rejection by the Project Architect and/or the THERMOTOTEK™ Technical Representative. Please be aware that technical on-site support for instructing certified contractors in the proper application of the THERMOTOTEK™ ACRYLIC ELASTOMERIC SYSTEM OVER MODIFIED BITUMEN AND/OR BUR MEMBRANE is available.

2.3 PROCEDURE, COVERAGE RATE & APPLICATION INSTRUCTIONS

THERMOTOTEK™ ACRYLIC ELASTOMERIC SYSTEM OVER MODIFIED BITUMEN AND/OR BUR MEMBRANE is approved for application over BUR and Modified Bitumen Roofing membranes which have a good drainage.

- A. SURFACE PREPARATION: the surface must be clean, dry and free of dust, dirt, grease, wax, or other incompatible substances that may interrupt the proper adherence of the new fluid applied:

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- 1) Remove all loose particles and debris by using broom or air broomer.
- 2) Remove all loose granules by sweeping or vacuum.
- 3) For coating or repairing, the surface must be clean and dry, wash with THERMOTЕК™ WASH and clean water using a power wash machine (1500 psi- 1 ft away).
- 4) All the existing substrate must be securely adhered.
- 5) All necessary repairs to the existing roof shall be made according to NRCA (National Roofing Contractors Association) guidelines.
- 6) Areas of algae, mildew or fungus on the roof membrane or on the existing coating should be treated with a solution of 1 part household bleach and 3 parts water, followed with power washer rinse using clear water.

B. SUBSTRATE CONDITIONS: the roofing contractor is responsible to ensure that the substrate is acceptable for the THERMOTЕК™ roof system.

- 1) THERMOTЕК™ Technical Representative must present to the owner a completed inspection form verifying the substrate condition and any noted defects not specifically addressed in regard to this installation.
- 2) The surface shall be free from dirt, loose adhered granules, oil, debris and moisture, it shall be in stable condition. Any work on the area to receive this application shall be completed prior to installation.
- 3) Prior starting coating or restoring the roof, the applicator shall complete the substrate inspection. The architect, owner and applicator must agree that the surface is in acceptable condition. After this, the THERMOTЕК™ Technical Representative will begin the work.

C. APPLICATION INSTRUCTIONS:

- 1) **CRITICAL POINTS:** Review all critical points over the surface and repair them with THERMOTЕК™ DURA MASTIC, on details like cracks put two coats of THERMOTЕК™ DURA MASTIC and between them a layer of POLYESTER MESH.
- 2) **THERMOTЕК™ PRIMER APPLICATION:** coat with THERMOTЕК™ PRIMER any exposed asphalt and Modified Bitumen Smooth/Sanded membrane to be treated, at a coverage rate¹ of 1 gallon per 100 square feet.
- 3) **THERMOTЕК™ ACRYLIC ELASTOMERIC COATING APPLICATION (base coat):** apply the base coat of THERMOTЕК™ ACRYLIC ELASTOMERIC COATING over the entire surface. The coverage rate for THERMOTЕК™ ACRYLIC ELASTOMERIC COATING will be 1.5 gallons per 100 square feet.
- 4) **THERMOTЕК™ ACRYLIC ELASTOMERIC COATING APPLICATION (top coat):** apply the top coat over the entire surface, perpendicularly from the base coat – in the ‘cross hatch’ manner. The coverage rate for THERMOTЕК™ ACRYLIC ELASTOMERIC COATING will be 1.5 gallons per 100 square feet.
- 5) Finally, the applicator shall complete substrate inspection prior to start roof coating. The architect/owner and applicator shall accept the condition of the surface. Beginning the work constitutes an acceptance from the THERMOTЕК™ Technical representative.

Note: Drying time depends on weather conditions such as temperature, humidity and air movements. The above drying times assume good weather (70 ° F daytime temperature) and NO RAIN. Conditions of lower temperature and rain will require a longer period for drying. The coverages contained herein are theoretical and these may vary depending on the surface roughness and the weather at the time of application. Existing foam and/or insulation roofs with extensive delamination or blistering of the foam, APP and/or the coating system, major wet areas, saturated foam, etc., will require total removal and possible replacement as per local building codes. When situations are questionable, Thermotek™ Technical Representative shall be contacted for recommendations. In all cases of prospective re-coats or initial 1st coat applications should be verified as to moisture content by survey, i.e. infra-red, in conjunction with core cuts and moisture readings. If moisture is present, the roof must be vented and allowed to dry completely before proceeding the application.

PART 3 – WARRANTY

3.1 WARRANTY

Please read our THERMOTЕК™ PRODUCT LIMITED WARRANTY¹, to verify our available warranty periods.

NOTE: For additional warranty questions please contact THERMOTЕК™ Technical and Warranty Services department.

¹ COVERAGE RATE: the texture and porosity of the existing roof may affect the coverage rate.

PART 4 – CARE AND MAINTENANCE

4.0 CARE AND MAINTENANCE PROGRAM

In order to ensure that your THERMOTЕК™ Roofing Products will continue performing to its fullest, you should follow, implement and satisfy this THERMOTЕК™ Care and Maintenance Program².

- A. Maintain a file for all records relating to your roof, including the THERMOTЕК™ Roofing Products agreements, reports, invoices, repair and maintenance bills, original drawings and specifications, etc.
- B. Inspect the roof and coating at least twice each year, preferably in spring and fall. The most common areas of damage or distress are drainage points, penetrations, perimeter flashings and traffic areas.
- C. The surface should always be clean and white. Pressure wash the coating as needed (at least once every 12 months) in order to remove all dirt and debris off the surface. Use THERMOTЕК™ WASH and clean water with an appropriate pressure washing equipment (1500 psi – 1 ft away), *do not use anything but clean water* unless THERMOTЕК™ Roofing Products (in such case, use only approved wash products).
- D. Inspect for damage after severe weather conditions, such as hailstorms, heavy rains, high winds, acts of God, etc.
- E. Arrange the prompt and necessary repairs to correct non-guaranteed conditions affecting the roof surface. Repairs to the surface must be promptly performed with THERMOTЕК™ Roofing Products, approved contractors with approved products, and repair methods that are consistent with the type and quality of the warranted coating, in order that such repairs will last as long as the THERMOTЕК™ Roofing Products.
- F. Remove regularly any debris, such as leaves, branches, dirt, rocks, bottles, rubbish... that may accumulate on the roof surface. Clean rain gutters, downspouts, scuppers, and surrounding roof areas ensure proper drainage.
- G. Examine all metal flashings, counter flashings, expansion joints and pitch pockets for repairing: rust, detachment, deteriorated sealant, and any damage. If it is necessary, reattach loose metalwork, replace sealant and paint rusted areas.
- H. Examine masonry walls and copings for cracks, bad mortar joints, deteriorated sealant, loose masonry/coping stones, and indications of bad water absorption. Repair all such conditions to prevent water filtration.
- I. Examine rooftop equipment such as air conditioners, ductwork, gooseneck vents, powered ventilators, evaporative coolers, antennas, equipment screens, skylights, satellite dishes, etc... For the excessive movement, spillage of coolant, condensation, oil, grease, water/liquid release, etc. Damage to sheet metal cabinets and rubber or fabric gaskets may allow water filtration. Employ, keep and maintain drainage systems for release of water from rooftop equipment to avoid surface water buildup. Keep all roof top equipment in good conditions.
- J. Inspect with frequency for any cracks, blistering, or flaking. Contact as soon as possible a THERMOTЕК™ Technical Representative for repairing. Any such cracks or blistering must be recoat/patch with approved THERMOTЕК™ products.
- K. Minimize rooftop traffic. Establish paths which confine roof traffic to designated areas only. Service personnel should take care to avoid dropping tools, equipment, parts, etc. on the roof surface; also they should not make any penetrations or repairs to the coating. All the work which affects the coating must be performed by an approved THERMOTЕК™ contractor.

END OF SECTION

¹ LIMITED WARRANTY – We as THERMOTЕК™ GROUP guarantee that since our products are shipped from the production plant they will be free of manufacturing defects and defective materials.; all the recommendations contained herein follow tests we consider as reliable and are subject to change without prior notice. THERMOTЕК™ GROUP does not assume any responsibility for coverage, application, performance on injuries resulting from storage, handling or misuse of our products. Liability, if any, is limited to product replacement, to the terms stated within the executed warranty.

² THERMOTЕК™ Care and Maintenance Program - is intended to address conditions commonly found on buildings (other conditions that require special maintenance considerations may exist). It is the responsibility of the building owner ensuring that the care and maintenance program used for his particular building is adequate, given that building's specific condition.