THERM 360

Premium Performance Modified Bitumen System

COMPOSITION: THERM 360 modified Bitumen Roof System consists of two smooth surfaced, polyester or glass reinforced SBS modified bitumen plies adhered and flooded with Thermastic 80 elastomeric hot melt adhesive. The system is then finished with a gravel surfacing. The system combines the flexibility of polymer modified membrane and adhesive components with the seamless and multi-ply assembly of a time tested built-up roof.

Basic Uses: THERM 360 can be used as a new or replacement membrane wherever a modified bitumen or built-up roof system is desired, but where conditions of severe climate, mechanical or thermal movement demand superior flexibility and fatigue resistance.

Limitations:
- Do not install over wet insulation or substrates.
- Do not install directly over any foam insulation.

Packaging: Thermastic 80 is available in 24.9kg (55 lb) kegs, 9 kegs per pallet. Estimate coverage of smooth modified bitumen as approximately 147 sqft/roll/ply.

Standard: Class A fire rated.

General Application Data: Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco representative will prepare detailed specifications based on the condition of your roof.

Structural Decks: Must be properly designed and structurally sound to support and secure the THERM 360 roof system.

Vapour/Air Barrier: Where specified, ensure proper design and installation.

Product Advantages

Features	Benefits
Polymer modified asphalt coated plies and adhesive	• Total membrane flexibility to res resist thermal shock and splitting
Seamless	• Continuous waterproofing protection without exposed lap edges
Polyester reinforcement	• Strong and pliable to resist punctures, tears and splits
No (torch) flame	• Reduced risk of fire

Drainage: Excessive ponding conditions can adversely affect the performance of any roof system. Where positive drainage does not exist water removal from the roof surface must be facilitated by lowering sumps, installing tapered insulation or additional drains.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day. Insulation may be secured with mechanical fastener or a Tremco approved hot or cold applied adhesive as specified.

Application Rates: Thermastic 80 quantities for waterstop/tie offs, flashing, miscellaneous detail applications and minimum kettle capacity are not included in interply and flood coat application rates. To account for these factors, add additional Thermastic 80 as required.

Precautions: Users must read container labels and Materials Safety Data Sheet for health and safety precautions prior to use.

Installation Procedures: According to particular job specifications, prepare surface to be covered:
- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation or nailed base sheet.

1. Heat Thermastic 80 in a clean asphalt kettle equipped with a circulating pump. Follow instructions on label.

2. Consult Tremco Representative for special application techniques regarding application in windy, high humidity or cold weather (<4°C) conditions.

3. Starting at the low point of the roof, install 2 plies of smooth modified bitumen. Place to ensure that water will flow over or parallel to, but not against exposed edges. Lap ends 150 mm (6 in) and stagger all laps 300 mm (12 in.), minimum. Dry roll each ply to ensure proper alignment, prior to adhering.

4. Embed each ply in solid mopping of Thermastic 80 at approximately 1.2 kg/sqm (25lb/sq) per ply. Apply Thermastic 80 no more than 3 metres (10 m) ahead of each roll being embedded. Ensure the temperature of the hot melt, at point of application, is above 204'C.

5. Install flashings incorporating either Elastomeric Sheeting, 2 plies of Polytherm or 2 plies of Modified Bitumen as specified.

TREMCO®

Roofing & Weatherproofing Peace of Mind™

Surfacing: Apply Thermastic 80 at 2.7 kg/sqm (55 lb.sq) ± 10% and immediately broadcast 20 kg/sqm (400 lb/sq) of new, clean pea gravel.

Availability/Cost: Immediately available from Tremco Ltd. at strategic locations throughout Canada.

Cost data is available from your local Tremco Representative. For name and telephone number of your local Tremco Representative, call 1-800-668-9879 in Toronto, 514/521-9555 in Montreal.

Guarantee/Warranty: We warrant our products to be free of defects and manufactured to meet published physical properties when cured and tested according to ASTM, CGSB and Tremco standards. Under this warranty, we will provide, at no charge, additional product to replace any product proved to be defective when applied in accordance with our written instructions and in applications recommended by us as suitable for this product.

All claims concerning product defect must be made within twelve (12) months of shipment. Absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

Maintenance During Warranty Period:
Written notice to Tremco within thirty (30) days is required after any alleged defect is noticed.

Technical Services: Your local Tremco Representative, in conjunction with Tremco Engineering Service Department, provides problem analysis and assistance in developing recommendations for special applications. On-site instruction can generally be provided at a nominal charge. Their services are complemented and extended by the Tremco Research Centre, which has earned a unique reputation in weatherproofing technology.

Statement of Policy and Responsibility: Tremco takes responsibility for the furnishing of quality roofing materials, and providing specifications and recommendations for their proper installation. Tremco does not, either itself of through its representatives, practice architectural or structural engineering. Tremco offers no opinion on, and expressly disclaims any responsibility for, the structural soundness of any roof deck on which its products may be applied

Opinions of competent structural engineers should be obtained as to the structural soundness of the roof deck, or its ability to properly support the contemplated roof installation. Tremco accepts no liability for any failure of the roof deck or resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

Physical Performance Characteristics

THERM 360

Property		Typical Value	Test Method
Thermastic 80:			
Softening Point (°C)		90-96	ASTM D3461
Elongation (%)		800	ASTM D412 (die C)
Low Temperature Flexibility (°C)		-8°C	ASTM D3111
Modified Bitumen Ply:			
Thickness		2.2mm	
Reinforcement		Polyester (180 gm/sqm)	
Tensile Strength (@25°C)	-MD	390N (87.8 lbf)	ASTM D 5147
	-XMD	244N (55 lbf)	ASTM D 5147
Elongation (@25°C)	-MD	63.3%	ASTM D 5147
	-XMD	70%	ASTM D 5147
Tear Strength (@25°C)	-MD	502N (113 lbf)	ASTM D 5147
	-XMD	280N (63 lbf)	ASTM D 5147
Low Temperature Flexibility		-25°C	ASTM D 5147
THERM 360 System:			
Tensile Strength (@-18 C)	-MD	1316N (296 lbf)	ASTM D 2523
	-XMD	894N (201 lbf)	ASTM D 2523
Elongation (@-18 C)	-MD	29.9%	ASTM D 2523
	-XMD	42.1%	ASTM D 2523

TREMCO

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