

THERM 360

Premium Performance Modified Bitumen System

FEATURES

Polymer modified asphalt coated plies and adhesive

Seamless

Polyester reinforcement

No (torch) flame

BENEFITS

- Total membrane flexibility to resist thermal shock and splitting
- Continuous waterproofing protection without exposed lap edges
- Strong and pliable to resist punctures, tears and splits
- Reduced risk of fire

DESCRIPTION

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:

PACKAGING

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

Standard: Class A fire rated.

APPLICATION

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.

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.

Installation Procedures: According to particular job specifications, prepare surface to be covered:

THERM 360

APPLICATION CONTINUED

- 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 (25 lb/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.

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

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

LIMITATIONS

PHYSICAL PROPERTIES

| PROPERTY | TYPICAL VALUE | TEST METHOD |
|----------------------------------|---|------------------------|
| Thermastic 80: | | |
| Softening Point (°C) | 90-96°C | 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 17.7 kN/m (100 lbf/in), XMD 15.9 kN/m (90 lbf/in) | CSA A123.23/ASTM D5147 |
| Elongation (@25°C) | MD 60%, XMD (70%) | CSA A123.23/ASTM D5147 |
| Strain Energy | 7.1 kN/m (40 lbf/in) MD, 6.2 kN/m (35 lbf/in) XMD | CSA A123.23/ASTM D5147 |
| Low Temperature Flexibility | -18°C (0°F) | CSA A123.23/ASTM D5147 |
| THERM 360 System | | |
| Tensile Strength (@-18°C) | MD 1110N (250 lbf/in), 975N (220 lbf/in) | ASTM D2523 |
| Elongation (@-18°C) | MD 28%, XMD 30% | ASTM D2523 |

MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.

TECHNICAL SUPPORT



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