

# THERMastic® 80 Adhesive

## A High Performance SEBS Modified Elastomeric Hot-Melt Adhesive

### FEATURES

Hot Elastomeric Roof Membrane Adhesive

800% elongation

High performance

UL & FM approved

### BENEFITS

- Provides very good elongation and recovery
- Excellent cold weather characteristics
- Long service life and increased durability of roof membrane
- Fire/wind protection

### DESCRIPTION

THERMastic® 80 Adhesive is a high quality unblown asphalt modified with SEBS polymers. THERMastic 80 Adhesive provides excellent performance qualities.

### BASIC USES

THERMastic 80 Adhesive is used as an insulation, interply, and flood coat adhesive for modified bitumen systems as well as in high performance built-up roofs. THERMastic 80 exceeds the performance requirements of ASTM D 6152. Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

### PACKAGING

Available in 55 lb.(24.9kg) containers, 9 containers per pallet.

### 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 upon your roof's conditions.

**Structural Deck:** Must be properly designed and structurally sound.

**Drainage:** Excessive ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains or tapered insulating systems.

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day. Follow insulation manufacturer's instructions to obtain minimum thickness for spanning metal deck ribs.

**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 a base sheet by mechanical attachment or in a uniform continuous mopping of THERMastic 80 Adhesive applied at 25-30 lb/100 ft<sup>2</sup> (1.25-1.5 kg/m<sup>2</sup>).

Plan placement of roofing ply sheets to ensure that water will flow over or along, but not against exposed edges. Use standard kettle equipped with circulating pump. Do not heat THERMastic 80 Adhesive above its flash point.

**Application temperature range:** 415-465°F (213-240° C). Starting at low point of roof, apply a uniform continuous mopping of THERMastic 80 Adhesive using standard roofing mop or Tremco approved felt layer.

Use ply sheets to start and finish roof membrane along edges, terminations and projections as specified. Install ply sheets, overlapping each previous ply the specified width. Embed each ply in uniform and continuous mopping of THERMastic 80 Adhesive at an interply application rate of 25 lbs/100 sq ft (1.25 kg/m<sup>2</sup>) +20% tolerance.

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## APPLICATION CONTINUED

Ply shall never touch ply. Apply THERMastic 80 Adhesive no more than ten feet (3m) ahead of each roll. Lightly broom plies from unmopped side to assure complete adhesion. Tie in previous work 24"(610mm). Lap ply sheet ends 6"(152mm). Stagger end laps. **Avoid walking on plies until THERMastic 80 Adhesive has cooled.** Install flashings as specified.

## SURFACING OPTIONS

**Gravel:** Apply THERMastic 80 over roof surface at 50 lb/100 ft<sup>2</sup> ± 20% (2.4kg/m<sup>2</sup>). Immediately broadcast 400 lb/100 ft<sup>2</sup> (19.6kg/m<sup>2</sup>) of new, clean gravel or 300lb/100 ft<sup>2</sup> (14.6 kg/m<sup>2</sup>) of slag into adhesive. Aggregate shall conform to ASTM D 1863.

**Smooth Surface:** Consult your local Tremco Representative for specific applications suitable for your geographic area.

## APPLICATION RATES

THERMastic 80 Adhesive quantities for waterstop/tie-offs, flashings, miscellaneous detail applications and minimum kettle capacity are not included in interply and flood coat application rates.

## LIMITATIONS

- Not intended to perform under ponding conditions. Positive drainage required.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Not for use over expanded polystyrene (EPS) or EPS composite insulations installed in any configuration unless EPS is encapsulated within lightweight insulating cellular concrete.
- Not for direct use over isocyanurate insulation. Isocyanurate insulations must be overlaid with an acceptable coverboard.
- Not for use over phenolic insulations installed in any configuration.
- Backnail felts on roofs with slopes 2:12 (2" per foot) (17%) or greater. Do not install on roofs with slopes greater than 3:12 (3" per foot) (25%).
- Do not install when ambient temperatures are below 50°F (10° C) unless special cold weather application procedures are followed. Consult your local Tremco Representative for details.

## PHYSICAL PROPERTIES

| PROPERTY  | TYPICAL VALUE                       | TEST METHOD |
|---|-------------------------------------|-------------|
| Volatile organic compound (less water, less exempt solvent) | 0 g/L                               | ASTM D3960  |
| Elongation @ 77°F (25°C)                                    | 800%                                | ASTM D412   |
| Elastic Recovery  | 96%                                 | ASTM D412   |
| Softening point   | 195-205°F (90-96°C)                 | ASTM D36    |
| Density @ 77°F (25°C)                                       | 8.2 lb/gal (982 kg/m <sup>3</sup> ) | ASTM D70    |
| Flash point   | 525°F (274°C) minimum               | ASTM D92    |
| Low Temperature Flexibility                                 | 18°F (-8°C)                         | ASTM D3111  |
| Penetration   | 51 dmm                              | ASTM D5     |
| Penetration after heat exposure                             | 49.7 dmm                            | ASTM D6152  |

## 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.

## TECHNICAL SUPPORT

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



Roofing & Building Maintenance

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