

THERMastic® Adhesive

A High Performance SEBS Modified Elastomeric Hot-Melt Adhesive

FEATURES

Elastomeric hot-melt adhesive

1,000% elongation

Maintainable; Durable

UL & FM approved

BENEFITS

- Provides rubber-like elongation and recovery
- Excellent cold weather characteristics
- Reduces likelihood of thermal shock induced splitting
- Long service life. Modification to roof top areas readily accommodated
- Fire/wind protection

DESCRIPTION

THERMastic® Adhesive is a premium rubberized asphalt formulation applied as a hot-melt adhesive. Made of high quality unblown asphalt modified with select SEBS, polymers, THERMastic Adhesive delivers superior performance qualities.

BASIC USES

THERMastic Adhesive is designed for application as an elastomeric hot-melt adhesive in a variety of built-up roof configurations. THERMastic Adhesive can be used as an interply adhesive for modified bitumen systems as well as in high performance built-up roofs. THERMastic can be used in combination with approved aggregate as a flood coat surfacing. It can also be used to adhere Tremco approved insulations to acceptable substrates. THERMastic Adhesive exceeds the performance requirements of ASTM D-6152.

PACKAGING

Available in 55 lb. (24.9 kg) 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 rooftop, decks, rotted wood components, and 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: 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, tapered insulation, or a Tremco approved cellular lightweight insulating concrete slope system.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day.

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 base sheet by mechanical attachment or in a uniform and continuous mopping of THERMastic Adhesive applied at 25-30lb/100 ft² (1.2-1.4 kg/m²).

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 Adhesive above its flash point.

Application temperature range: 415-465°F (212-240°). Starting at low point of roof, apply a uniform continuous mopping of THERMastic Adhesive using standard roofing mop or Tremco approved felt layer.

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APPLICATION CONTINUED

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 Adhesive.

SURFACING OPTIONS

Ply shall never touch ply. Apply THERMastic Adhesive no more than ten feet ahead of each roll. Lightly broom plies from unmopped side to assure complete adhesion. Tie in previous work 24" (600mm). Lap ply sheet ends 6" (150mm). Stagger end laps. **Avoid walking on plies until THERMastic Adhesive has cooled.** Install flashings as specified.

Gravel: Apply THERMastic over roof surface at 50 lb/100 ft² (2.4 kg/m²) + 20%. Immediately broadcast 400 lb/100 ft² (19.5 kg/m²) of new, clean gravel or 300 lb/100 ft² (14.6 kg/m²) 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

25 lbs/SQ (1.2 kg/m²) per ply, with a +20% tolerance. THERMastic Adhesive quantities for waterstop/tieoffs, 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 either 1/2" (13mm) fiberboard, or 1" (25mm) perlite (minimum thicknesses).
- Not for use over phenolic insulations installed in any configuration.
- Backnail felts on roofs with slopes 2:12 (2" per foot) or greater. Do not install on roofs with slopes greater than 3:12 (3" per foot).
- 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
Elongation @ 77°F	1,000%	ASTM D 412
Softening point	190-220°F (87.8-104.4°C)	ASTM D 36
Equiviscous temperature (125cP)	425°F (218°C)	ASTM D 4402
Density @ 77°F (25°C)	8.3 lb/gal (0.994 kg/L)	ASTM D 70
Flash point	550°F (287°C) min.	ASTM D 92
Penetration @ 77°F (25°C)	25-50 dmm	ASTM D 5
Penetration after Heat Exposure	30.7dmm	ASTM D 6152
Elastic Recovery	92%	ASTM D 412
Low Temperature Flexibility	14°F (-10°C)	ASTM D 3111

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.

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