

THERMastic® Adhesive

A High Performance SEBS Modified Elastomeric Hot-Melt Adhesive

Composition: THERMastic® Adhesive is a proprietary polymeric 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-6152-99.

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, 3/4" (19mm) fibrous glass, 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.

Packaging: Available in 60 lb. (27.2 kg) containers, 9 containers per pallet.

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. The use of FAS-n-FREE Adhesive for solvent free, fastener free insulation attachment is the preferred method of securement unless otherwise specified.

Acceptable Insulations:

Type	Minimum Thickness*	Facer
Fiberboard	1/2" (13mm)	None
Fibrous glass	3/4" (19mm)	Paper
Perlite	1" (25mm)	None
Sublayer		
Fiberboard	1/2" (13mm)	None
Fibrous glass	3/4" (19mm)	Paper
Perlite	1" (25mm)	None
Isocyanurate	1" (25mm)	Black
Maximum size:	4'x8' (1219 mm x 2438mm)	

*Minimum thickness for application of THERMastic Adhesive. 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.

Product Advantages	
Features	Benefits
Elastomeric hot-melt adhesive	<ul style="list-style-type: none"> • Provides rubber-like elongation and recovery • Excellent cold weather characteristics
1,000% elongation	<ul style="list-style-type: none"> • Reduces likelihood of thermal shock induced splitting
Maintainable	<ul style="list-style-type: none"> • Long service life. Modification to roof top areas readily accommodated
UL & FM approved	<ul style="list-style-type: none"> • Fire/wind protection



Roofing & Weatherproofing Peace of Mind™

- 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.

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.

Interply application rate:

Felt	lb/100 ft²*
BURmastic Glass Ply	25 (1.2 kg/m ²)
Burmastic Composite Ply	25 (1.2 kg/m ²)
Poly-THERM	25 (1.2 kg/m ²)
THERMglass	25 (1.2 kg/m ²)
Powerply MB systems	25 (1.2 kg/m ²)

* Application Tolerance: ±20%

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.

SURFACING OPTIONS

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 - 93.

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

Application Rates: THERMastic Adhesive quantities for waterstop/tieoffs, flashings, miscellaneous detail applications and minimum kettle capacity are not included in interply and flood coat application rates.

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

Availability and Cost: Contact your local Tremco Representative for pricing and availability. For name and number of your representative, call 216/292-5000 - Roofing Division.

Maintenance: Your Tremco Representative can provide effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs, and preventative maintenance are all sound procedures.

Guarantee/Warranty: Tremco Inc. warrants THERMastic to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, THERMastic in standard packaging to replace any THERMastic proven to be defective when applied according to our written instructions, and in applications recommended by us as suitable for THERMastic. THIS IS BUYER'S SOLE

Physical/Performance Characteristics

THERMastic® Adhesive

Property	Typical Value	Test Method
Elongation @ 77°F	1,000%	ASTM D 412-98a
Softening point	190-220°F (87.8-104.4°C)	ASTM D 36-95
Equiviscous temperature (125cP)	425°F (218°C)	ASTM D 4402-87 (2000)
Density @ 77°F (25°C)	8.3 lb/gal (0.994 kg/L)	ASTM D 70-82(1990)
Flash point	550°F (287°C) min.	ASTM D 92-90
Penetration @ 77°F (25°C)	25-50 dmm	ASTM D 5-97
Penetration after Heat Exposure	30.7dmm	ASTM D 6152-99
Elastic Recovery	92%	ASTM D 412-98a
Low Temperature Flexibility	14°F (-10°C)	ASTM D 3111-88 (1994)

AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Tremco offers a full range of guarantees with respect to the watertight integrity of Tremco Roofing Systems. The complete terms of such guarantees, as well as details on the conditions of each, are available from your local Tremco Representative.

Technical Services: Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service Staff.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.

As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

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