

# BURmastic® Composite Ply HT

## Coated Trilaminate Reinforced SBS Modified Ply Sheet for Built-Up and Modified Bitumen Roofing Systems

**COMPOSITION:** BURmastic Composite Ply HT is polyester/glass scrim/glass mat trilaminate reinforcement coated with SBS modified waterproofing asphalt. BURmastic Composite Ply HT has exceptional tensile and tear strength and is asbestos-free.

**BASIC USES:** BURmastic Composite Ply HT is designed as a ply sheet for application in multi-ply configurations over insulation boards and/or base sheets in the BURmastic and POWERply cold process roof systems. BURmastic Composite Ply HT can also be used as a hot or cold applied base sheet. Additionally, BURmastic Composite Ply HT is used as a mechanically attached base sheet. BURmastic Composite Ply HT exceeds the requirements of ASTM D 4601, Type II.

Refer to UL Roofing Materials and Systems Directroy and/or FM Approved RoofNav for applicable system configurations.

**LIMITATIONS:**

- BURmastic Composite Ply HT is not intended to perform under ponding conditions. Positive drainage is required.
- BURmastic Composite Ply HT should not be exposed to solvents, oils or other contaminants harmful to asphaltic materials.
- Do not hot apply BURmastic Composite Ply HT in a multi-layer, shingle application.

**PACKAGING:** Available in 3'x72' (915mmx21.9m) rolls, 200 ft<sup>2</sup>/roll (18.6m<sup>2</sup>/roll). Sold by the pallet (20 rolls/pallet). 79 lbs/roll (35.8 kg)

Product Advantages	
Features	Benefits
Multi-ply system	<ul style="list-style-type: none"> <li>• Redundant water-proofing</li> </ul>
Trilaminate reinforcement	<ul style="list-style-type: none"> <li>• Superior strength and tear resistance for long term performance</li> <li>• Tough, durable protection</li> </ul>
Continuous application	<ul style="list-style-type: none"> <li>• Reduced labor costs</li> <li>• Reduced opportunity of application defects</li> <li>• Increases application simplicity</li> </ul>
UL Classified	<ul style="list-style-type: none"> <li>• Fire protection</li> </ul>

**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 can prepare detailed specifications based upon your roof's conditions.

**STRUCTURAL DECKS:** 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 lightweight cellular concrete.

**INSULATION:** Insulation must be dry and kept dry. No more insulation shall be installed than can be covered in that day. The use of Fas-n-Free® Adhesive or Low-Rise Foam Adhesive for solvent-free, fastener-free insulation attachment is the preferred method of securement unless otherwise specified.

**APPLICATION:**

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

- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation, protection course, or base sheet.

**Cold Process BUR:** Starting at the low point of the roof, plan placement of BURmastic Composite Ply HT to ensure that water will flow over or along, but not against, exposed ply edges.

**Continuous Lay Application**

- Apply cold process adhesive in a uniform and continuous application. Ply shall never touch ply.
- Align the full roll on the underlying ply line.
- Roll out the Composite Ply HT roll into the cold adhesive.
- Broom the Composite Ply HT into place fully and heavily using a 32" wide broom. Do not use a felt rake or squeegee.
- Allow the Composite Ply HT roll to run true; if roll



goes off line, cut the ply immediately and reset. Do not attempt to push roll back onto underlying line.

**Cut and Relax:** Alternately, the cut and relax method may be used:

- Cut 18' sections of Composite Ply HT and stack the sections for approx. 1 hour.
- Apply cold process adhesive at the recommended coverage rate.
- Align and set the ply using 2 men; 1st man anchors the ply and 2nd man assures the ply is set on line.
- Broom the Composite Ply HT into place fully and heavily, using a 32" wide broom. Do not use a felt rake or squeegee.

**Three ply membrane:** Start and finish roof membrane along edges, terminations, and projections, use starting/finishing strips — 12, 24, and 36" (305mm, 610mm, and 915mm) wide plies.

Install BURmastic Composite Ply HT in shingle fashion. Overlap starter strips 26" (660mm) with first ply, then overlap each succeeding ply 24-2/3" (625mm).

**Four ply membrane:** Start and finish roof membrane along edges, terminations, and projections, use starting/finishing strips — 9, 18, 27 and 36" (229mm, 457mm, 685mm, and 915mm) wide plies.

Install BURmastic Composite Ply HT in shingle fashion. Overlap starter strips 29" (750mm) with first ply, then overlap each succeeding ply 27-1/2" (698mm).

**Base Sheet:** Mechanically attach or embed a full width of BURmastic Composite Ply HT in hot-melt or cold process adhesive. Side laps: 4" (100mm). End laps: 6" (150mm) minimum and staggered. Broom plies to assure complete contact. Extend all plies to top edges of all cants and cut off evenly. Overlap previous work 24" (610mm).

**Surfacing Options:** Smooth and aggregate surfacing options are available. Consult your local Tremco Representative for specific recommendations.

**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 Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

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

**GUARANTEE/WARRANTY:** Tremco Inc. warrants BURmastic Composite Ply HT to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any BURmastic Composite Ply HT product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writ-

## Physical Performance Characteristics

### BURmastic® Composite Ply HT

Property	Typical Value	Test Method
Weight	38 lb/ 100 ft <sup>2</sup> (1.8 g/m <sup>2</sup> )	ASTM D 5147
Thickness	60 mils (1.5 mm)	ASTM D 5147
Tensile strength @ 77°F (25°C)	165 lbf/in (725N) MD 150 lbf/in (660N) XD	ASTM D 5147
Tensile strength @ 0°F (-18°C)	190 lbf/in (835N) MD 180 lbf/in (790N) XMD	ASTM D 5147
Tear Strength @ 77°F (25°C)	260 lbf MD 230 lbf XMD	ASTM D 5147
Pliability, 1/2 in.	No failures (13mm) radius	ASTM D 146-90
Mass of desaturated mat, min.	3.0 lb/ 100 ft <sup>2</sup> (146 g/m <sup>2</sup> )	ASTM D 228-90a
Surfacing stabilizer, max.	65%	ASTM D 4601-91
Asphalt	10.0 lb/ 100 ft <sup>2</sup> (485g/m <sup>2</sup> ) minimum	ASTM D 228-90a

ing 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.

**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 the opinion 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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