BURmastic® Composite Ply HT

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

FEATURES	BENEFITS
Multi-ply system	• Redundant waterproofing
Trilaminate reinforcement	• Superior strength and tear resistance for long term performance • Tough, durable protection
Continuous application	• Reduced labor costs • Reduced opportunity of application defects • Increases application simplicity
UL Classified	• Fire protection

DESCRIPTION

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 or as the base membrane in the AlphaGuard® MT/MTS/BIO Fluid Applid Roof Sytem. BURmastic Composite Ply HT exceeds the requirements of ASTM D 4601, Type II. Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

PACKAGING

Available in 3'x72' (915mm x 21.9m) rolls, 200 ft^2/roll (18.6m^2/roll). Sold by the pallet (20 rolls/pallet). 79 lbs/roll (35.8 kg)

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.
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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.

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.

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APPLICATION
CONTINUED

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 or stretch 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.

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.

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.

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Weight	38 lb/ 100 ft² (1.8 kg/m²)	ASTM D 5147
Thickness	60 mils (1.5 mm)	ASTM D 5147
Tensile strength @ 77°F (25°C)	165 lbf/in (28.7 kN/m) MD, 150 lbf/in 26.1 kN/m) XMD	ASTM D 5147
Tensile strength @ 0°F (-18°C)	190 lbf/in (33.1 kN/m) MD, 180 lbf/in (31.4 kN/m) XMD	ASTM D 5147
Tear strength @ 77°F (25°C)	260 lbf (1155N) MD, 230 lbf (1022 N) XMD	ASTM D 5147
Pliability, 1/2 in.	No failures (13mm) radius	ASTM D 146
Mass of desaturated, mat, min.	3.0 lb/ 100 ft² (146 g/m²)	ASTM D 228
Surfacing stabilizer, max.	65%	ASTM D 4601
Asphalt	10.0 lb/ 100 ft² (485g/m²) minimum	ASTM D 228

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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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