

# PolyTHERM Roofing Ply

## Polyester Fabric Ply Sheet For Use In Hot Applied Roofing Systems

**Composition:** PolyTHERM Roofing Ply is a non woven continuous filament, spunbond, heat-resistant polyester, manufactured to provide superior strength and toughness. PolyTHERM Roofing Ply exceeds ASTM D 5726 Type I, the Standard Specification for Thermoplastic Fabrics used in Hot-Applied Roofing.

**Basic Uses:** PolyTHERM Roofing Ply is designed for use as base plies under hot applied POWERply Roofing Systems and for use in multi-ply hot BUR applications where the highest level of performance is needed in toughness, puncture resistance, elongation and flexibility over a wide range of service temperatures.

**Limitations:** Roof systems using PolyTHERM Roofing Ply are not intended to perform under ponding conditions. Positive drainage is required. Do not apply when wind-chill factor prevents installation of hot melt adhesives within stated application temperature range. Roof systems using PolyTHERM Roofing Ply should not be exposed to solvents, oils or other contaminants harmful to asphaltic materials.

**Packaging:** PolyTHERM Roofing Ply rolls are 39.3" (1000 mm) wide, with approximately 10 squares (92.9 m<sup>2</sup>) per roll.

Product Advantages	
Features	Benefits
Unique spunbond polyester ply with heat-resistant binders	<ul style="list-style-type: none"> <li>Provides an extra dimension of strength and toughness to rooftop performance in critical applications. Superior puncture resistance.</li> </ul>
Multi-ply membrane	<ul style="list-style-type: none"> <li>Successive levels of protection and waterproofing performance.</li> <li>Time-tested reliable installation techniques of conventional built-up roofing.</li> </ul>
Maintainable	<ul style="list-style-type: none"> <li>Long service life. Modification to rooftop areas readily accommodated.</li> </ul>
Surfacing options	<ul style="list-style-type: none"> <li>Can be finished with various methods to meet local requirements.</li> </ul>

**General Application Data:** Roof replacement usually involves more complexities than new construction roofing. Such contingencies as rusted or deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions are often encountered.

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 Decks:** Deck must be properly designed and structurally sound.

**Drainage:** Ponding conditions are unacceptable and will adversely affect performance of any roofing system.

Where positive drainage does not exist, water removal from roof surface must be facilitated by lowering drains and/or installing a lightweight insulating concrete slope system, tapered insulation or additional drains.

**Insulation:** Insulation must be dry and kept dry. No more insulation shall be installed than can be closed in 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.

**Installation Procedures:** In accordance with the particular job specification, prepare surface to be covered; e.g.-

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

Plan placement of PolyTHERM Roofing Ply to ensure that water will flow over or along, but not against, exposed edges.

Starting at low point of roof, apply uniform and continuous mopping of the specific hot-melt adhesive using standard roofing mop or Tremco approved felt layer, at 2 1/5 gal/sq (1.02 L/m<sup>2</sup>) (25 lbs/sq). Apply hot-melt adhesive within its EVT range. To start and finish roof membrane along edges, terminations and projections, use starting/finishing strips; 13 1/8", 26 1/4" and 39.3" (333, 667 and 1000 mm) strips for 3-ply system.

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Install PolyTHERM Roofing Ply in shingle fashion, overlap starter strips 28 inches (711 mm) with first ply, then overlap each succeeding ply 27 inches (686 mm). 4-ply membranes can also be constructed. Embed each ply in uniform and continuous mopping of the specific hot-melt adhesive. Interply mopping rate: Minimum 25 lbs/sq.

Ply shall never touch ply. Apply specified hot-melt adhesive no more than ten feet ahead of each roll. Immediately broom plies to ensure complete adhesion. Overlap previous work 24 inches (600 mm). Lap ply sheet ends six inches (150 mm). Stagger end laps. **Avoid walking on plies until hot-melt adhesive has cooled.** Install flashings as specified.

**Surfacing Options:** Gravel and smooth surfacing options are available. Consult your local Tremco Representative for specific surfacing options.

**Precautions:** Users must read all 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 PolyTHERM Roofing Ply to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, any PolyTHERM Roofing Ply product that is proved to be defective when applied in accordance to Tremco's 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 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.

**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

## Physical Performance Characteristics

### PolyTHERM Roofing Ply

Property	Typical Value	Test Method
Breaking Load @ 25°C	154 lbf MD (685 N/50mm) 130 lbf XMD (578 N/50mm)	ASTM D 4830
Elongation @ 25°C	30% MD 30% XMD	ASTM D 4830
Trapezoid tearing strength	60 lbf MD (267 N) 60 lbf XMD (267 N)	ASTM D 4830
Weight	190 g/m <sup>2</sup> min.	ASTM D 3776
Thickness	0.036 in. (0.92 mm)	ASTM D 1777

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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