

POWERply® Heavy Duty Base Sheet

A Smooth Surfaced, Fiberglass Bilaminate Reinforced Modified Bitumen Membrane

Composition: POWERply® Heavy Duty Base Sheet is a smooth surfaced high strength modified bitumen membrane. POWERply Heavy Duty Base Sheet is constructed with a non woven fiberglass mat/fiberglass scrim bilaminate reinforcement. The asphalt coating is modified with an SBS elastomer. POWERply Heavy Duty Base Sheet is asbestos free and exceeds the requirements of ASTM D6163, Type III, Grade S.


Basic Uses: POWERply Heavy Duty Base Sheet is designed for application in hot applied asphalt adhesives in modified bitumen systems where a high tensile modified base sheet or flashing ply is desired.

POWERply Heavy Duty Base Sheet can also be used as a base ply or flashing ply in a cold process modified bitumen roof system.

Limitations:

- The use of phased construction techniques is not permitted.
- Not intended to perform under ponding conditions. Positive drainage is required.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Backnail on roofs with slopes 2:12 (2" per foot), or greater.

Dimensions: POWERply Heavy Duty Base Sheet roll size is 100 sq ft/roll (9.3 m²) applied, with roll dimensions of 3' X 36' (915 mm X 10.95 m). Roll thickness is 3.0 mm. Roll weight is 103 lbs. (46.8kg).

Product Advantages	
Features	Benefits
Polymer modified asphalt	• Resists thermal shock and splitting
Bilaminate Glass fiber reinforced	• Strong, non-rotting ply. Superior Strength for long term performance
Smooth surface	• Can be surfaced with a variety of finishes
UL Classified 	• Fire Protection

Packaging: POWERply Heavy Duty Base Sheet is available in pallets, with 20 rolls per pallet.

APPLICATION DATA:

Roof replacement usually involves more complexities than new construction roofing. Contingencies such 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 on the condition of your roof.

Structural Deck: 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, tapered insulation, or an approved lightweight insulating concrete slope system.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered in that day. Use of FAS-n-FREE® Adhesive for solvent free, fastener free insulation attachment is the preferred method of securement unless otherwise specified.

Installation Procedures: According to job specifications, prepare the surface to be covered:

- Replace areas of wet insulation, deteriorated deck and wood components.
- Install roof insulation or nailed base sheet and multi-ply base ply system.

Plan the placement of POWERply Heavy Duty Base Sheet to ensure that water flows over or along, but not against, the exposed edges.

Phased construction is not permitted. All roof membrane layers specified must be installed the same day.

Base Sheet Application: Cut POWERply Heavy Duty Base Sheet into 16'-18' (4.9-5.5 m) lengths maximum. Allow lengths to relay.

Above 55°F (13°C) : 30 minutes minimum
Below 55°F (13°C) : 60 minutes minimum



Roofing & Weatherproofing Peace of Mind™

For hot applications, the adhesive temperature must be at the EVT or 425°F (218°C) at the point of application-whichever is greater. THERMastic, THERMastic 80, and Premium IV Asphalt are recommended as hot applied adhesives for POWERply Heavy Duty Base Sheet. Hot applied modified bitumen membranes require special application techniques under cool ambient temperatures and/or moderate wind conditions.

Starting at the low point of the roof, embed POWERply Heavy Duty Base Sheet in a uniform and continuous application of adhesive. Press the membrane into the adhesive using a minimum 75 pound weighted roller to assure full contact of the back of the membrane into the adhesive. Ply shall never touch ply.

Side laps 4" (102 mm) minimum; end laps 6" (152 mm) minimum. Offset membrane laps from the ply sheet laps. Stagger end laps at least 36" (914mm). To assure complete and uniform adhesion at lap edges, adhesive should exude past lap edges. Install flashings as specified.

Coverage Rates:

- Hot melt interply application rate: 25 lb/100 ft² (1.25 kg/m²)
- Cold adhesive interply application rate: 1.5 - 2.0 gal/100 ft² (0.6 - 0.8 L/m²)

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 preventative maintenance are all part of a sound roof program.

Guarantee/Warranty: Tremco, Incorporated warrants POWERply Heavy Duty Base Sheet to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards.

Under this warranty, any product that is proved to be defective when applied in accordance with 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 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.

Physical Performance Characteristics

POWERply® Heavy Duty Base Sheet

Property	Typical Value	Test Method
Tensile strength	220 lbf/in/MD	ASTM D5147
@ 0°F (18°C)	190 lbf/in/XMD	
Elongation	3% MD	ASTM D5147
@ 0°F (18°C)	3.5% XMD	
Low temperature flexibility	-5°F (-20°C)	ASTM D5147
Thickness	3.0 mm (0.120 in)	ASTM D5147
Tear strength	220 lbf (977N) MD	ASTM D5147
@ 77°F (25°C)	240 lbf (1065N) MD	

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 weather-proofing 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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