

POWERply® Premium Smooth

A High Performance, Bilaminate Reinforced, Smooth Surfaced Modified Bitumen Membrane

Composition: POWERply® Premium Smooth is a smooth surfaced modified bitumen membrane with a high strength bilaminate reinforcing carrier. It is modified with a compatible blend of SBS/SEBS elastomers. The reinforcing carrier consists of a 2 ply composite polyester/glass core. POWERply Premium Smooth is asbestos free. POWERply Premium Smooth exceeds the requirements of ASTM D 6162, Type III, Grade S.

Basic Uses: POWERply Premium Smooth is designed for application in cold applied asphalt adhesives over multi-ply systems for the construction of high performance roof systems.

POWERply Premium Smooth may be used as part of the membrane flashing system, with approved surfacing

POWERply Premium Smooth is surfaced with flood and aggregate or a variety of reflective surface coatings.

POWERply Premium Smooth provides excellent flexibility and strength over a wide range of service temperatures in a variety of applications.

Limitations:

- The use of phased construction techniques is not permitted.
- Not intended for use as a single ply membrane.
- Not intended to perform under ponding conditions.
- Positive drainage is required.
- Not intended for application by torch.
- Available only as a smooth surfaced membrane.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.

- Backnail on roofs with slopes 2:12 (16.6%) or greater.

Dimensions: POWERply Premium Smooth is a 2.0 mm thick membrane. Roll covers 1.5 SQ (13.9 m²) when applied, with roll dimensions of 1 m X 15.7 m (39.4" X 51.5'). Each roll weighs approximately 90 lbs (40.8 kg)

Packaging: POWERply Premium Smooth is available in pallets only, 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, and/or installing additional drains, tapered insulation, or an approved cellular 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 Premium Smooth to ensure that water flows over or along, but not against, the exposed edges. Starting at the low point of the roof, apply a uniform continuous application of adhesive according to specifications. Embed the ply sheet(s) as specified. Avoid walking on plies during the placement.

Product Advantages	
Features	Benefits
Polymer modified asphalt	• Resists thermal shock and splitting
High strength polyester/glass reinforcement	• Exceptional strength and toughness • Puncture resistant
Smooth surface	• Can be surfaced with a variety of finishes
UL Classified 	• Fire Protection

Phased construction is not permitted. POWERply Premium Smooth must be installed the same day as the base ply system.

Embed the POWERply Premium Smooth in a uniform 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.

For applications in cold process adhesives, cut felt into 18' to 20' (5.5 to 6.1m) lengths maximum and allow lengths to relax prior to application.

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

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 adhesion at lap edges, adhesive should be visible past lap edges. Install flashings as specified.

Coverage Rates:

- Cold adhesive interply application rate:
1.5 gal/100 ft² (0.6 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 Premium Smooth 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.

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.

Physical Performance Characteristics		
POWERply® Premium Smooth		
Property	Typical Value	Test Method
Thickness	2.2 mm (0.090 in)	ASTM D 5147-05
Tensile strength @ 77°F (25°C)	548 lbf/in MD (96 kN/m) 590 lbf/in XMD (103 kN/m)	ASTM D 5147-05
Elongation @ 77°F (25°)	7.0% MD 6.4% XMD	
Tensile strength @ 0°F (-18°C)	644 lbf in MD (112 kN/m) 711 lbf/in XMD (124 kN/m)	ASTM D 5147-05
Elongation @ 0°F (-18°C)	6.3% MD 5.4% XMD	ASTM D 5147-05
Low temperature flexibility	-35°F (-37°C)	ASTM D 5147-05
Asbestos content	None	EPA 600/R-13/116

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 not 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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