

POWERply® 300 Smooth

A Smooth-Surfaced, Bilaminate Reinforced SBS/SEBS Modified Bitumen Membrane

Composition: POWERply® 300 Smooth is a fire resistant, smooth surfaced modified bitumen membrane. It consists of specially selected bitumens, modified with compatible SBS/SEBS elastomers and reinforced with a high-tensile, polyester and fiberglass fabric. POWERply 300 Smooth is asbestos free and exceeds the requirements of ASTM D6162, Type III, Grade S.

Basic Uses: POWERply 300 Smooth is designed for both hot and cold process applications in modified bitumen roofing and flashing systems where a high-tensile polyester and fiberglass bilaminate, reinforced smooth-surfaced membrane is desired.

Limitations:

- Not intended to perform under ponding conditions.
- Not to be exposed to solvents, oils, or other contaminants harmful to asphaltic materials.
- Backnail on roofs with slopes 2:12 inches (16.6%) or greater.
- Not intended for phased construction.
- Must be surfaced with aggregate or coatings.

Dimensions: POWERply 300 Smooth is a 2.5 mm (100 mils) thick membrane. Each roll covers 150 sq.ft. (13.9 m²) when applied. Roll dimensions are 39.4" x 51.5' (1m x 15.7m).

Weight: Approximately 100 lbs. (45.4 kg) per roll.

Packaging: POWERply 300 Smooth is available in pallets only, with 20 rolls per pallet.

General Application Data: Roof replacement usually involves more complexities than new construction roofing projects. Situations such as rusted and/or deteriorated roof decks, rotted wood components, rooftop equipment that 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 Decks: The roof deck must be properly designed and structurally sound.

Drainage: Ponding conditions are unacceptable and will adversely affect the performance of any roofing system. If positive drainage does not exist, then water removal from the roof surface must be facilitated by lowering drains and/or by installing additional drains, tapered insulation systems, or Tremco approved light-weight insulating concrete slope system.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day. The use of Fas-N-Free Adhesive for solvent free, fastener free insulation attachment is the preferred method of attachment 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 a nailed base sheet.

Plan the placement of POWERply Roof Systems to ensure that water flows along or over, but not against, the exposed edges of the membrane.

Starting at the low point of the roof, install the modified bitumen roof system according to the project specifications.

For cold process applications, cut the POWERply 300 Smooth in 16' to 18' (4.9 to 5.5m) lengths maximum. Allow lengths to relax for the following time lengths prior to installation:

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

Place the POWERply 300 Smooth membrane in a uniform and continuous application of adhesive. Side laps four (4") inches (100 mm) minimum; end laps six (6") inches (150 mm) minimum. 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. Offset base laps from membrane laps. Stagger ends 36" (approximately 1m) minimum. To assure complete and uniform adhesion, adhesive should exude past lap edges.

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®,

Product Advantages	
Features	Benefits
Polymer modified asphalt	<ul style="list-style-type: none"> • Resists thermal shock and splitting • Superior fire resistance
High strength polyester/ fiberglass reinforcement fabric	<ul style="list-style-type: none"> • Exceptional tensile strength, tear strength and toughness
No torch flame	<ul style="list-style-type: none"> • Reduced risk of fire
UL Classified	<ul style="list-style-type: none"> • Fire Protection



THERMastic 80, and Premium IV Asphalt are recommended hot-melt adhesives for POWERply membranes. Hot applied modified bitumen membranes require special application techniques under cool ambient temperatures and/or moderate wind conditions.

POWERply Rubberized Cold Adhesive and POWERply Standard Cold Adhesive are recommended cold-applied adhesives for POWERply membranes. Consult your local Tremco Representative for specific recommendations.

Coverage Rates:

Hot melt interply application rate: 1.24 kg/m² (25 lb/100 sqft).

Cold process interply application rate: 0.8 L/m² (2.0 gal/SQ).

Surfacing: Smooth reflective coatings and aggregate surface options are available. Consult your local Tremco representative for specific recommendations.

Precautions: Use must read container and/or packaging labels and Material Safety Data Sheets for health and safety precautions prior to use.

Availability and Cost: Contact your local Tremco Representative for pricing and availability. For the name and contact information of your Representative, please contact the Roofing & Building Maintenance 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 Incorporated warrants POWERply 300 Smooth to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any POWERply 300 Smooth 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 not 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 condition 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® 300 Smooth		
Property	Typical Value	Test Method
Thickness	100 mils (2.5mm)	ASTM D5147
Tensile Strength @ 0°F (-18°C)	MD 450 lbf/in. XD 375 lbf/in	ASTM D5147
Elongation @ 0°F (-18°C)	MD 8% XD 7%	ASTM D5147
Tear Strength @ 73°F (23°C)	MD 715 lbf. XD 630 lbf.	ASTM D5147
Tensile Strength @ 73°F (23°C)	MD 390 lbf/in. XD 330 lbf/in	ASTM D5147
Elongation @ 73°F (23°C)	MD 16% XD 10%	ASTM D5147
Low Temperature Flexibility	-35°F (-37°C)	ASTM D5147

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 or any components below the building structure on which its products may be applied.

If questions arise as to the soundness of a structure, its ability to support a planned installation properly, or whether material below the structure will be disturbed, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any failure of the structure or material below the structure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



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