

POWERply® Premium Smooth

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

FEATURES

- Polymer modified asphalt
- High strength polyester/glass reinforcement
- Can be surfaced with a variety of finishes
- Fire Protection

BENEFITS

- Resists thermal shock and splitting
- Exceptional strength and toughness
- Puncture resistant
- Smooth surface
- UL Classified



DESCRIPTION

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.

DIMENSIONS

POWERply Premium Smooth is a 2.2 mm (87 mil) 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

General 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.

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

- Replace areas of wet insulation, deteriorated deck and wood components.

POWERply® Premium Smooth

APPLICATION

CONTINUED

- 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.

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 6.1 m) 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.

Cold adhesive interply application rate: 1.5 gal/100 ft² (0.6 L/m²)

- 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.

COVERAGE RATES

LIMITATIONS

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	2.2 mm (0.090 in)	ASTM D5147-05
Tear Strength @ 77°F (25°C)	548 lbf/in MD (96 kN/m), 590 lbf/in XMD (103 kN/m)	ASTM D5147-05
Elongation @ 77°F (25°C)	7.0% MD, 6.4% XMD	ASTM D5147-05
Tensile Strength @ 0°F (-18°C)	644 lbf in MD (112 kN/m), 711 lbf/in XMD (124 kN/m)	ASTM D5147-05
Elongation @ 0°F (-18°C)	6.3% MD, 5.4% XMD	ASTM D5147-05
Low Temperature Flexibility	-35°F (-37°C)	ASTM D5147-05
Asbestos content	None	EPA 600/R-13/116

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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