POWERply® 300 Smooth

A Smooth-Surfaced, Bilaminate Reinforced, Modified Bitumen Membrane

FEATURES	BENEFITS
Polymer modified asphalt	• Resists thermal shock and splitting • Superior fire resistance
High strength polyester/ fiberglass reinforcement fabric	• Exceptional tensile strength, tear strength and toughness
No torch flame	• Reduced risk of fire
UL Classified	• Fire Protection

DESCRIPTION

POWERply® 300 Smooth is a fire resist-ant, 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. Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

DIMENSIONS

POWERply 300 Smooth is a 2.5 mm (100 mils) thick membrane. Each roll covers 150 sq. ft.(13.9 m^2) 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 pal-lets only, with 20 rolls per pallet.

APPLICATION

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 Deck: 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.

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.

POWERply® 300 Smooth

APPLICATION
CONTINUED

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®, 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.

COVERAGE RATES

Hot melt interply application rate: 1.24 kg/m^2 (25 lb/100 sq. ft.).
Cold process interply application rate: 0.8 L/m^2 (2.0 gal/SQ).

SURFACING

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

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.

PHYSICAL PROPERTIES

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%, XMD 7%	ASTM D5147
Tear Strength @ 73°F (-18°C)	MD 715 lbf., XD 630 lbf.	ASTM D5147
Tensile Strength @ 73°F (-18°C)	MD 390 lbf., XD 330 lbf.	ASTM D5147
Elongation @ 73°F (23°C)	MD 16%, XMD 10%	ASTM D5147
Low Temperature Flexibility	-35°F (-37°C)	ASTM D5147

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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