

POWERply® Endure™ 300 Smooth

Smooth Surfaced, High Tensile, Bilaminate Reinforced
SBS Modified Bitumen Membrane



FEATURES

SBS Elastomer combined with Reactive Enhanced Terpolymer (RET) and Thermoplastic Polyurethane (TPU)

UL Classified

Roof-ID™ chip embedded into each roll

BENEFITS

Improves the durability of the modified bitumen blend

Fire Protection

Capability to identify the membrane and its QC data over the life of the roof

DESCRIPTION

POWERply Endure 300 Smooth is an asbestos free, smooth surfaced, modified bitumen membrane with fire resistant characteristics. It consists of specially selected bitumens, modified with SBS rubber along with RET and urethane high performance elastomers and reinforced with a high tensile polyester and fiberglass fabric. POWERply Endure 300 Smooth exceeds the requirements of ASTM D 6162, Type III, Grade S. POWERply Endure 300 Smooth roof systems are fire rated by Underwriters Laboratories for an exterior fire hazard. Refer to UL Roofing Materials and Systems Directory for applicable system configurations.

BASIC USES

POWERply Endure 300 Smooth is designed for roof membrane and flashing applications in hot applied asphalt adhesives over multi-ply systems where a high strength, bilaminate reinforced, smooth surfaced membrane is desired. In addition, POWERply Endure 300 Smooth is suitable for application in a cold process modified bitumen system.

PACKAGING

POWERply Endure 300 Smooth is a 2.4mm (94.5 mil) thick membrane. A roll covers 150 sq. ft. (13.9 m²) when applied, with roll dimensions of 39-3/8" x 51'6" (1m x 15.7m). Each roll weighs approximately 106 lbs (48 kg).

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

APPLICATION

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 Endure 300 Smooth to ensure that water flows over or along, but not against, the exposed edges. Starting at the low point of the roof, apply adhesive uniformly and continuously according to specifications. Embed the ply sheet(s) as specified. Avoid walking in plies during the placement.

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

Above 55° F (13° C): 30 minutes

Below 55° F (13° C): 60 minutes

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 of POWERply Endure 300 Smooth. Hot applied modified bitumen membranes require special application techniques under cool ambient temperatures and/or moderate wind conditions. Consult your local Tremco Roofing sales representative for specific recommendations.

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APPLICATION CONTINUED

Place the POWERply Endure 300 Smooth in a uniform and continuous application of adhesive. Press the membrane into the adhesive using a weighted roller 35-75 lbs. (16-34 kg.) to assure full contact of the back of the membrane into the adhesive.

Side laps 4" (102 mm) minimum; end laps 6" (152 mm) minimum. Hot air welding of laps is acceptable. Offset membrane laps for the ply sheet laps. Stagger end laps at least 36" (914 mm). To assure complete adhesion at lap edges, adhesive should be visible past lap edges. Install flashings as specified.

COVERAGE RATES

Hot melt interply application rate: 25 lbs/100ft² (1.24 kg/m²) Cold process interply application rate: 2 gal/SQ (0.8 L/m²)

LIMITATIONS

- Not intended to perform under ponding conditions; positive drainage 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) (16.6%) or greater
- Not intended for phased construction

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	2.5 mm (100 mils)	ASTM D 5147
Tensile Strength @ 0°F (-18°C)	405 lbf/in MD (70.9 kN/M) 390 lbf/in XMD (68.3 kN/M)	ASTM D 5147
Elongation @ 0°F (-18°C)	8% MD 9% XMD	ASTM D 5147
Tensile Strength @ 77°F (25°C)	355 lbf/in MD (62.1 kN/M) 310 lbf/in XMD (54.2 kN/M)	ASTM D 5147
Elongation @ 77°F (25°C)	16.0% MD 11.0% XMD	ASTM D 5147
Tear Strength @ 77°F (25°C)	590 lbf MD (2624 N) 590 lbf XMD (2624 N)	ASTM D 5147
Low Temp Flex	-25°F (-31° C)	ASTM D 5147
Dimensional Stability	pass	ASTM D 5147
Compound Stability @ 215°F (102°C)	pass	ASTM D 5147

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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