

# POWERply® 250 Smooth

## *A Smooth Surfaced, Polyester Reinforced SBS Modified Bitumen Membrane*

### FEATURES

Polymer modified asphalt  
Polyester reinforced  
Fire resistant

### BENEFITS

- Resists thermal shock and splitting
- High elongation and puncture resistant
- Meets building codes and insurance requirements

### DESCRIPTION

POWERply® 250 Smooth is an asbestos free, SBS modified, smooth surfaced modified bitumen membrane. It is reinforced with a heavy duty non-woven polyester fabric. POWERply 250 Smooth exceeds the requirements of ASTM D6164, Type I, Grade S.

### BASIC USES

POWERply 250 Smooth is designed for application in both hot applied and cold process roof systems and flashings where a smooth membrane is desired. There are a variety of roof systems containing POWERply 250 Smooth which are fire rated by Underwriters Laboratories for an exterior fire hazard. Refer to UL Roofing Materials & Systems Directory and/or FM Approvals RoofNav® for applicable roof system configurations.

### DIMENSIONS

POWERply 250 Smooth is a 2.3 mm (91 mil) thick membrane. Each roll covers 1.48 SQ (13.8 m<sup>2</sup>) as applied, with roll dimensions of 39-3/8" x 49'2" (1m x 14.99m). Each roll weighs approximately 85 lbs (38.6 kg). 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.

For application in cold process adhesive, cut POWERply 250 Smooth in 16 to 18' (4.9-5.5 m) lengths maximum. Allow lengths to relax.

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

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. Hot applied modified bitumen membranes require special application techniques under cool ambient conditions and/or moderate wind conditions. Consult your local Tremco Representative for specific recommendations.

**Application:** Plan the placement of POWERply 250 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 and continuous application of adhesive according to specifications. Avoid walking on membrane during placement.

Place POWERply 250 Smooth in a uniform and continuous application of adhesive. Lap selvage 4" (100mm) minimum; end laps 6" (150mm) minimum. Press the membrane into the adhesive using a 35-75 lb (16-34 kg) weighted roller to assure full contact of the back of the membrane into the adhesive. Offset laps from base laps. Stagger ends 36" (1m) minimum. Install flashings as specified.

# POWERply® 250 Smooth

## 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.

## PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Thickness	2.3mm (91 mils)	ASTM D6164/ASTM D5147
Tensile Strength @ 0°F (-18°C)	110 lbf/in MD (19.3 kN/M) 90 lbf/in XMD (15.8 kN/M)	ASTM D6164/ASTM D5147
Elongation @ 0°F (-18°C)	35% MD 40% XMD	ASTM D6164/ASTM D5147
Tensile Strength @ 77°F (25°C)	80 lbf/in MD (14.0 kN/M) 60 lbf/in XMD (10.5 kN/M)	ASTM D6164/ASTM D5147
Elongation @ 77°F (25°C)	55% MD 60% XMD	ASTM D6164/ASTM D5147
Ultimate Elongation @ 77°F (25°C)	70% MD 80% XMD	
Tear Strength @ 77°F (25°C)	125 lbf MD (555 N) 90 lbf XMD (400 N)	ASTM D6164/ASTM D5147
Low Temp Flex	-20° F (-29° C)	ASTM D6164/ASTM D5147
Dimensional Stability	Pass	ASTM D6164/ASTM D5147
Compound Stability @ 215°F (102°C)	Pass at 250° F (121° C)	ASTM D6164/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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