

# POWERply® 2PM

## Smooth Surfaced, Polyester Reinforced SBS Modified Bitumen Membrane

### FEATURES

- SBS Modified Bitumen
- No torch flame
- Factory controlled thickness
- Polyester reinforcement

### BENEFITS

- Accommodates live load stresses and thermal cycling on the roof.
- Reduced risk of fire and membrane degradation.
- Assures uniform protection
- Excellent durability and fatigue resistance to mechanical damage and Thermal Shock.

### DESCRIPTION

POWERply 2PM is smooth surfaced, modified bitumen. It consists of specially selected bitumen, modified with compatible SBS elastomers and reinforced with a non-woven polyester mat. POWERply 2PM is asbestos free. POWERply 2PM exceeds the requirements of CSA A123.23, Type B Grade 3 and ASTM D6164, Type I, Grade S. Refer to UL Roofing Materials and Systems Directory for applicable system configurations.

### BASIC USES

POWERply 2PM is designed for applications in hot or cold applied modified bitumen systems where a polyester reinforced membrane is desired.

### PACKAGING

POWERply 2PM is available in rolls, 1 metre wide by 15 metres (39<sup>3</sup>/<sub>8</sub>" x 49'2") long, with an approximate installed coverage of 13.7 sq. metre (147 sq. ft.). Each roll weighs approximately 51kg (113 lbs) and is 2.2mm (87mil) thick. POWERply 2PM is available in pallets, with 20 rolls/pallet.

### APPLICATION

**Drainage:** Excessive ponding conditions can adversely affect the performance of any roofing system. Where positive drainage does not exist (minimum of 1:100 (1/8" per ft.), water removal from the roof surface must be facilitated by lowering sumps, installing tapered insulation or additional drains.

**Installation:** See application instructions for detailed information on new roofing and reroofing for various deck types.

Field application and finishing techniques are critical in securing a watertight roof. Application instructions must be followed exactly. There is no substitute for good workmanship by experienced, trained applicators. Follow the detailed instructions for the specific application. Do not substitute materials. If questions arise, contact your Tremco Representative.

**Application:** The following application information is designed to serve as a general guide. Depending upon your particular roofing needs, your Tremco Representative will prepare detailed recommendations.

**Preparatory Work:** In accordance with the particular job specification, prepare surface to be covered - eg. replace areas of wet insulation, deteriorated deck and wood components, etc.

Reroofing usually involves more complexities than new construction roofing. Contingencies such as rusted or deteriorated decks, rotted wood components, roof top equipment which cannot be removed or shut down, and numerous other conditions are often encountered.

The surface to which the roofing system is to be installed must be clean, dry and free from protrusions and sharp edges. Debris, oil and grease must be removed.

Prime all metal, wood and masonry surfaces prior to adhering the roof membrane. The applicator is responsible to see that the above conditions are met.

**Structural Decks:** The existing deck must be properly designed and constructed to support and secure the POWERply System.

**Vapour/Air Barrier:** Where specified, ensure proper design and installation. Contact Tremco for detailed recommendations.

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## APPLICATION CONTINUED

**Insulation:** Insulation must be dry prior to being installed. No more insulation shall be installed than can be closed in that day. Insulation may be adhered with a hot melt adhesive, a Tremco approved cold adhesive, or mechanically fastened depending upon substrate, exterior and interior environment and other requirements as outlined in the specification.

Place the POWERply 2PM in a uniform and continuous application of adhesive. Press the membrane into the adhesive. When applying in cold adhesive, use a weighted roller 16-34 kg (35-75 lbs.) to assure full contact of the back of the membrane into the adhesive.

Side laps 75mm (3 in.) minimum; end laps 150mm (6 in.) minimum. Hot air welding of laps is acceptable. Offset membrane laps between base and cap sheets. Stagger end laps approx. 1 metre (3 ft). To assure complete adhesion at lap edges, adhesive should be visible past end edges. Install flashing as specified.

## LIMITATIONS

- Do not expose to solvents; oils or other contaminants harmful to asphaltic materials.
- Not intended to perform under ponded water conditions; positive drainage required.
- Backnail on roofs with slopes of 16.6% (2:12) or greater.

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	2.2 mm (87 mils)	CSA A123.23/ASTM D5147
Strain Energy at 25°C (77°F)	7.1 kN/m (40 lbf/in) MD 6.2 kN/m (35 lbf/in) XMD	CSA A123.23/ASTM D5147
Peak Load at 25°C (77°F) (Tensile Strength)	17.7 kN/m (100 lbf/in) MD	CSA A123.23/ASTM D5147
Post Heat Conditioning	15.9 kN/m (90 lbf/in) XMD	
Ultimate Elongation at 25°C (77°F)	60% MD 70% XMD	CSA A123.23/ASTM D5147
Dimensional Stability	pass	CSA A123.23/ASTM D5147
Low Temp Flex -Post Heat Conditioning	-18°C (-0°F)	CSA A123.23/ASTM D5147
Compound Stability at 102°C (215°F)	pass	CSA A123.23/ASTM D5147
Post Heat Conditioning		
Resistance to Puncture	pass	CSA A123.23/ASTM D5602

## 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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