POWERply® 3PM

A High Performance, Moppable Modified Bitumen Membrane for Roofing

Composition: POWERply 3PM is a prefabricated, granule surfaced weathering membrane consisting of a non-woven polyester reinforcement which is fully coated with an SBS modified bitumen. The top surface is covered with ceramic granules to provide a prefinished surface and weather protection. The underside of the sheet is sanded to permit adhering to a variety of surfaces and to ensure ease of unrolling during application.

Basic Uses: The 3PM granulated cap ply is designed to be mopped in place in a 2 ply new or replacement roofing system over an approved base ply. 3PM may also be used as the finishing ply when assembling a more conventional multi-ply roofing membrane.

Features:

- Elastomers in both membrane and adhesive offer system compatibility and flexibility to accommodate live load stresses and thermal cycling on the roof.
- No torch flame: reduced risk of fire and membrane degradation.
- Combines the flexibility of a Single Ply with the security of a Multi-ply roof.
- Prefabricated, granulated finish provides labour savings and aesthetics.
- Lightweight; The POWERply system is approximately 30% the weight of a (gravelled) BUR system.
- Factory controlled thickness assures uniform protection.
- Polyester reinforcement provides excellent durability and fatigue resistance for resistance to mechanical damage and Thermal Shock.
- Easy to inspect, repair and maintain.

Limitations:

- Do not install by torch welding.
- Do not install over wet insulation or substrates.
- Do not install directly over foam insulations.
- On roofs with slopes 1:6 or greater, backnailing is required.
- Do not expose to solvents; oils or other contaminants harmful to asphaltic materials.

Packaging: 3PM is available in rolls, 1 metre wide by 10 metres long, with an approximate installed coverage of 9.1 sq. metre (98 sq. ft.).

Standard: Meets Canadian General Standards Board standard 37-GP-56M.

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.

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.

TREMCO®

Roofing & Weatherproofing Peace of Mind™

Precautions: Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

Application Rates: Hot Melt adhesive quantities for water-stop/tie-offs, flashings, miscellaneous detail applications and minimum kettle capacity are not included in interply and flood coat application rates. To account for these factors, add additional Hot Melt adhesives required.

POWERply 3PM/Base Ply over Insulation: Plan the placement of POWERply 3PM to ensure that water flows over or along, but not against exposed edges. Use standard kettle equipped with circulating pump. Follow heating instructions on label.

Starting at low point of roof, apply a uniform and continuous mopping of Hot Melt at the rate of 1.2 kg/sq. metre (25 lbs/sq).

Embed a full width of the base ply. Continue to install full widths of base ply lapping sides 100 mm (4") and ends 150 mm (6"). Terminate base ply approximately 38 mm (1.5") above the top of the cant and cut off.

Install base ply flashings.

Place POWERply 3PM in a uniform and continuous mopping of Hot Melt at the minimum rate of 1.2 kg/sq. metre (25 lbs/sq). Lap selvedge 75 mm (3') and end laps a minimum of 150 mm (6"). Offset POWERply 3PM laps from base sheet laps. Stagger end laps approximately 1 metre. To ensure complete and uniform adhesion, Hot Melt should exude past lap edges 6-12 mm (0.25-0.50").

Extend the 3PM cap ply to the base of the cants and cut off. Install cap ply flashings as specified.

Availability and Cost: Immediately available from Tremco Ltd. at strategic locations throughout Canada.

Cost data is available from your local Tremco Representative.

For name and telephone number of your local Tremco Representative, call 416/421-3300 in Toronto, 514/521-9555 in Montreal or 800/263-6046. In the U.S. call 216/292-5000 or 800/852-6013.

Guarantee/Warranty: We warrant our products to be free of defects and manufactured to meet published physical properties when cured and tested according to ASTM, CGSB and Tremco standards. Under this warranty, we will provide, at no charge, additional product to replace any product proved to be defective when applied in accordance with our written instruction and in applications recommended by us as suitable for this product.

All claims concerning product defect must be made within twelve (12) months of shipment. Absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty is in lieu of any and all other warranties expressed or implied.

Physical Performance Characteristics

POWERply® 3PM

Property		Typical Value	Test Method
Tensile Str (kN/m)	MD	16	37 GP 56M
	XMD	13	37 GP 56M
Ultimate Elongation (%)	MD	60	37 GP 56M
	XMD	70	
Low Temp. Flex (°C)		-20	37 GP 56M
Static Puncture		Pass	37 GP 56M
Weight (Kg)		40	
Reinforcement (Type and GM/sq m)		Polyester 180	
Thickness (mm) (without granules)		3.0	
Tensile Str (kN/m @ -18°C) 3PM/Composite	MD	35.5	ASTM D 2523
	XMS	29.9	

Maintenance During Warranty Period:
Written notice to Tremco within thirty (30) days is required after any alleged defect is noticed.

Technical Service: Your local Tremco Representative, in conjunction with Tremco Engineering Service Department, provides problem analysis and assistance in developing recommendations for special applications. On-site instruction can generally be provided at a nominal charge. Their services are complemented and extended by the Tremco Research Centre, which has earned a unique reputation in weatherproofing technology.

Statement of Policy and Responsibility: Tremco takes responsibility for the furnishing of quality roofing materials, and providing specifications and recommendations for their proper installation.

Tremco does not, either itself of through its representatives, practice architectural or structural engineering. Tremco offers no opinion on, and expressly disclaims any responsibility for, the structural soundness of any roof deck on which its products may be applied

Opinions of competent structural engineers should be obtained as to the structural soundness of the roof deck, or its ability to properly support the contemplated roof installation. Tremco accepts no liability for any failure of the roof deck or resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

TREMCO

An RPM Company

3735 Green Road
Beachwood, OH 44122
216-292-5000

220 Wicksteed Ave
Toronto, ONT M4H 1G7
416-421-3300

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