

POWERply® Standard FR

A Fire Rated Granule Surfaced Modified Bitumen Membrane

Composition: POWERply® Standard FR is a granule surfaced weathering membrane with fire resistant characteristics. It consists of specially selected bitumens, modified with compatible SBS elastomers and a glass reinforcing mat and is surfaced with an embedded layer of factory applied granules. POWERply Standard FR is also asbestos free. POWERply Standard FR was formerly known as THERM MB LTD. POWERply Standard FR exceeds ASTM D 6163, Type I, Grade G.


Basic Use: POWERply Standard FR is designed for application in both hot and cold applied roof systems where a granule surfaced membrane is desired. POWERply Standard FR has a fire rating of Class A.

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.

Dimensions: Available in 3.0 mm thick, 3' (0.91m) wide rolls. 100 square foot (9.29m²) per roll as applied. Approximate roll weight is 101 lbs. (45.8 kg). Available in pallets only.

Color: The factory applied granule surfacing is available in white, tan, and black. Other colors, such as red, blue, and green are also available. Contact your local Tremco Representative for additional details.

Product Advantages	
Features	Benefits
Polymer modified asphalt	• Resists thermal shock and splitting
Fiberglass reinforced	• Strong yet pliable to resist tears and splits
Fire resistant	• Meets building codes and insurance requirements
Factory applied surfacing	• Saves job site labor and application errors
UL Classified 	• Fire Protection

General Application Data: Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be moved or shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based upon your roof's conditions.

Structural deck: Must be properly designed and structurally sound.

Drainage: Ponding conditions are unacceptable and will adversely affect performance of any roofing system. If positive drainage does not exist, water removal must be facilitated by lowering drains, and/or installing additional drains, tapered insulation, or a Tremco approved lightweight cellular insulating concrete slope system.

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed than can be covered that day. The use of FAS-n-Free® Adhesive for solvent free fastener free insulation attachment is the preferred method of securement unless otherwise specified.

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 nailed base sheet and multi-ply base ply system.

Cold Process POWERply Standard FR: For application in cold process adhesive, cut POWERply Standard FR 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

Hot applied POWERply Standard FR:

THERMastic, POWERply Modified Hot Melt, and Premium IV Asphalt are recommended as adhesives for POWERply Standard FR. Hot applied modified bitumen membranes require special application techniques under cool ambient temperatures and/or moderate wind conditions. Consult your local Tremco Representative for specific recommendations.

Application: Plan the placement of POWERply Standard FR 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. Embed ply sheets as specified. Avoid walking on plies during placement.

Place POWERply Standard FR in a uniform and continuous application of adhesive. 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. Lap selvage 4" (100mm) minimum; end laps 6" (150mm) minimum. Offset laps from base laps. Stagger ends 36" (1m) minimum. To assure complete and uniform adhesion, adhesive should exude past lap edges. Install flashings as specified.

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

Availability and Cost: Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

Maintenance: Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

Guarantee/Warranty: Tremco Incorporated warrants POWERply Standard FR to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY. All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limit-

Physical Performance Characteristics

POWERply® Standard FR

Property	Typical Value	Test Method
Thickness	0.120 in. (3.0 mm)	ASTM D 5147-05
Tensile strength @ 0°F (-18°C)	120 lbf/in. MD (21kN/m) 115 lbf/in. XMD (20kN/m)	ASTM D 5147-05
Elongation at 0°F (-18°C)	2.6% MD 2.5% XMD	ASTM D 5147-05
Tensile Strength @ 77°F (25°C)	81 lbf/in MD (14.1kN/m) 76 lbf/in XMD (13.2 kN/m)	ASTM D 5147-05
Elongation at 77°F (25°C)	7.7% MD 7.9% XMD	ASTM D 5147-05
Tear strength at 77°F (25°C)	104 lbf MD (462N) 108 lbf XMD (480N)	ASTM D 5147-05
Low Temp Flex	-15°F (-26°C)	ASTM D 5147-05
Dimensional Stability	pass	ASTM D 5147-05
Compound Stability at 215°F (102°C)	pass	ASTM D 5147-05
Puncture resistance	70 lbf (310N)	ASTM E 154-99

ed to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Technical Services: Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weather-proofing technology, complement and extend the services of the Tremco Technical Service staff.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation. As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

TREMCO

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

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

R-753531
Printed in USA

Rev. 2/13