

# POWERply® Standard FR

## A Fire Rated Granule Surfaced Modified Bitumen Membrane

### FEATURES

Polymer modified asphalt  
Fiberglass reinforced  
Fire resistant  
Factory applied surfacing  
UL Classified



### BENEFITS

- Resists thermal shock and splitting
- Strong yet pliable to resist tears and splits
- Meets building codes and insurance requirements
- Saves job site labor and application errors
- Fire Protection

### DESCRIPTION

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 USES

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.

Refer to UL Roofing Materials & Systems Directory and/or FM Approvals RoofNav® for applicable roof system configurations.

### DIMENSIONS

Available in 3.3mm (130mils) thick, 3' (0.91m) wide rolls. 100 square foot (9.29m<sup>2</sup>) 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.

### APPLICATION

**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.

**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.

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## APPLICATION CONTINUED

**Hot applied POWERply Standard FR:** THERMastic, THERMastic 80, 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.

## 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	0.120 in. (3.0 mm)	ASTM D5147
Tensile Strength @ 0°F (-18°C)	120 lbf/in. MD (21kN/m), 115 lbf/in. XMD (20kN/m)	ASTM D5147
Elongation @ 0°F (-18°C)	2.6% MD, 2.5% XMD	ASTM D5147
Tensile Strength @ 77°F (25°C)	81 lbf/in MD (14.1kN/m), 76 lbf/in XMD (13.2 kN/m)	ASTM D5147
Elongation @ 77°F (25°C)	MD 7.7%, XMD 7.9%	ASTM D5147
Tear Strength @ 77°F (25°C)	104 lbf MD (462N), 108 lbf XMD (480N)	ASTM D5147
Low Temperature Flex	-15°F (-26°C)	ASTM D5147
Dimensional Stability	pass	ASTM D5147
Compound Stability at 215°F (102°C)	pass	ASTM D5147
Puncture resistance	70 lbf (310N)	ASTM E 154

## 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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