

POWERply® Premium FR

A Fire Rated, Granule Surfaced Bilaminate Reinforced Modified Bitumen Membrane

FEATURES

- Polymer modified asphalt
- High strength polyester/glass reinforcement
- Saves job site labor and application errors
- Fire Protection

BENEFITS

- Resists thermal shock and splitting
- Exceptional strength and toughness
- Puncture resistant
- Factory applied surfacing
- UL Classified



DESCRIPTION

POWERply® Premium FR is a granule surfaced, fire resistant modified bitumen membrane. It consists of specially selected bitumens, modified with compatible SBS/SEBS/SIS elastomers and reinforced composite polyester/glass core. POWERply Premium FR is furnished with a factory applied granule surfacing. POWERply Premium FR is asbestos free. POWERply Premium FR exceeds the requirements of ASTM D 6162, Type III, Grade G.

BASIC USES

POWERply Premium FR is designed for applications in roofing and flashing systems where a high strength bilaminate reinforced, granule surface membrane is desired.

DIMENSIONS

POWERply Premium FR is a 3.8mm (149 mil) thick membrane. Roll covers 100 sq. ft. (9.29 m²) when applied, with roll dimensions of 1m x 10.5 m (39 3/8" x 34' 5" ft). Each roll weighs approximately 47.7 kg (105 lbs).

PACKAGING

POWERply Premium FR is available in pallets only, with 20 rolls per pallet.

COLOR

White (light gray) ceramic granule. Tan, black, and other custom color granule surfacings are also available.

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 on the condition of your roof.

Structural Decks: Must be properly designed and structurally sound.

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

Insulation: Insulation must be dry and kept dry. No more insulation shall be installed that 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.

Plan the placement of POWERply Premium 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 continuous application of adhesive according to specifications. Embed the ply sheet(s) as specified.

APPLICATION

CONTINUED

LIMITATIONS

PHYSICAL PROPERTIES

MAINTENANCE

PRECAUTIONS

TECHNICAL SUPPORT



Roofing & Building Maintenance

www.tremcoroofing.com
3735 Green Road
Beachwood, Ohio 44122
1.800.852.6013

220 Wicksteed Avenue
Toronto, Ontario, M4H 1G7
1.800.668.9879

Tremco Roofing and Building
Maintenance is part of Tremco
Construction Products Group.

POWERply® Premium FR

Avoid walking on plies during the placement.

Phased construction is not permitted. POWERply Premium FR must be installed the same day as the base ply system.

For cold process applications, cut POWERply Premium FR in 16' to 18' (4.9-5.5m) lengths maximum. Allow lengths to relax as follows:

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

Place the POWERply Premium 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.

Side laps 4" (102 mm) minimum; end laps 6" (152 mm) minimum. Offset membrane laps from the ply sheet laps. Stagger end laps at least 36" (914mm). To assure complete adhesion at lap edges, adhesive should be visible past lap edges. Install flashings as specified.

Cut Edge Sealant: Apply a compatible sealant bead along the cut edge of POWERply Premium FR membrane along end laps, flashings, and targets around drains. Using a bituminous surface adhesive or sealant, such as Reglet Joint Sealant, apply a maximum ¼" bead along cut edges. Press the bead into place and flatten to seal the cut edge and allow water to flow over the bead. Roofing granules may be pressed into the fresh sealant to provide an improved appearance. Factory side edges do not require cut edge sealant.

- 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.
- Not intended for phased construction.

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	0.160 in. (4mm)	ASTM D5147-05
Tensile Strength @ 77°F (25°C)	482 lbf/in MD, 500 lbf/in XMD	ASTM D5147-05
Elongation @ 77°F (25°C)	MD 6.3%, XMD 6.0%	ASTM D5147-05
Tensile Strength @ 0°F (-18°C)	541 lbf/in MD, 544 lbf/in XMD	ASTM D5147-05
Elongation @ 0°F (-18°C)	5% MD, 4% XMD	ASTM D5147-05
Tear Strength @ 77°F (25°C)	785 lbf MD, 760 lbf XMD	ASTM D5147-05
Low Temperature Flexibility	-35°F (-37°C)	ASTM D5147-05

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.

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

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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