

POWERply® Plus HT FR

A Fire Rated, Granule Surfaced, High Tensile Fiberglass Reinforced SBS/SEBS/SIS Modified Bitumen Membrane

FEATURES

- Polymer modified asphalt
- High strength fiberglass mat and scrim
- Fire resistant
- Factory applied surfacing
- UL Classified



BENEFITS

- Resists thermal shock and splits
- Excellent strength and toughness
- Meets building code and insurance requirements
- Saves job site labor and prevents application errors
- Fire Protection

DESCRIPTION

POWERply® Plus HT FR is a granule surfaced modified bitumen membrane with fire resistant characteristics. It consists of specially selected bitumens, modified with compatible SBS/SEBS/SIS elastomers and reinforced with a combination fiberglass mat and scrim core. POWERply Plus HT FR is furnished with a factory applied white granule surfacing. POWERply Plus HT FR is asbestos free. POWERply Plus HT FR exceeds the requirements of ASTM D 6163, Type III.

BASIC USES

POWERply Plus HT FR is designed for applications in hot applied asphalt adhesives over multi-ply systems where a high strength fiberglass reinforced, granule surfaced membrane is desired. In addition, POWERply Plus HT FR is suitable for application in a cold process modified bitumen system. POWERply Plus HT FR roof systems are fire rated by Underwriters Laboratories for an external fire hazard.

PACKAGING

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

DIMENSIONS

POWERply Plus HT FR is a 3.4mm (134 mil) thick membrane. Roll covers 100 sq. ft. (9.29 m²) when applied, with roll dimensions of 3' x 38' (0.91m x 11.5m). Each roll weighs approximately 95 lbs (43.1kg).

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 Deck: 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 lightweight insulating 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 Plus HT 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 the ply sheet(s) as specified. Avoid walking on plies during the placement.

POWERply® Plus HT FR

APPLICATION CONTINUED

For cold process applications, cut POWERply Plus HT FR in 16' to 18' (4.9 to 5.5m) lengths, maximum. Allow lengths to relax for the following time periods prior to installation:

Above 55°F (13°C): 30 minutes

Below 55°F (13°C): 60 minutes

For hot applications, adhesive temperature must be at the EVT or 425°F (218°C) at the point of application, whichever is greater. THERMastic, THERMastic 80, and Premium IV are recommended hot-applied adhesives for POWERply Plus HT FR.

For cold process applications, place POWERply Plus HT FR in a uniform and continuous application of adhesive and press into place using a weighted roller 35-75 lbs (16-34 kg) to assure full contact of the back of the membrane into the adhesive.

Side laps 4" (102mm) minimum; end laps 6" (152mm) minimum, Hot air welding of laps is acceptable. Offset membrane laps from the base/ply sheet laps. Stagger and laps at least 36" (914mm). 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.
- Not intended for phased construction.

PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	3.4 mm (134 mils.)	ASTM D 5147-02a
Elongation @ 0°F (-18°C)	6.4% MD 6.0% XMD	ASTM D 5147-02a
Tensile Strength @ 77°F (25°C)	220 lbf/in MD (28.5 kN/M) 220 lbf/in XMD (29.4 kN/M)	ASTM D 5147-02a
Elongation @ 77°F (25°C)	6.4% MD 7.0% XMD	ASTM D 5147-02a
Tear Strength @ 77°F (25°C)	280 lbf MD (1315 N) 300 lbf XMD (1195 N)	ASTM D 5147-02a
Low Temp Flex	-25° F (-31° C)	ASTM D 5147-02a
Dimensional Stability	pass	ASTM D 5147-02a
Compound Stability @ 215°F (102°C)	pass	ASTM D 5147-02a

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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