

POWERply® 250 FR

A Fire Rated , Granule Surfaced, Polyester Reinforced SBS Modified Bitumen Membrane

FEATURES

- Polymer modified asphalt
- Polyester reinforced
- Fire resistant
- Factory applied surfacing
- UL Classified



BENEFITS

- Resists thermal shock and splitting
- High elongation and puncture resistant
- Meets building codes and insurance requirements
- Saves job site labor and application errors
- Fire Protection

DESCRIPTION

POWERply® 250 FR is an asbestos free, SBS modified, granule surfaced modified bitumen membrane with fire resistant characteristics. It is surfaced with a factory applied white ceramic granule surfacing and reinforced with a heavy duty non-woven polyester fabric. POWERply 250 FR exceeds the requirements of ASTM D6164, Type II, Grade G.

BASIC USES

POWERply 250 FR is designed for application as a cap sheet and flashing membrane in both hot applied and cold process roof systems. POWERply 250 FR roof systems are fire rated by Underwriters Laboratories for an exterior fire hazard. Refer to UL Roofing Materials & Systems Directory and/or FM Approvals RoofNav® for applicable roof system configurations.

DIMENSIONS

Available as a 4.2 mm (165 mil) thick membrane. Roll covers 95.8 sq ft. (8.9 m² when applied, with roll dimensions of 39 3/8" x 32'10" 1m x 10m) and with a 4 inch (100 mm) selvedge. POWERply 250 FR weighs approximately 115 lbs (52 kg) per roll and is available in pallets with 20 rolls per pallet.

Available in 3.3mm (130mils) 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.

APPLICATION

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.

For cold process applications, cut POWERply 250 FR in 16' to 18' (4.9 to 5.5 m) lengths, maximum.

Allow lengths to relax for the following time length prior to installation:

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

For hot applications, the 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 Asphalt are recommended as hot applied adhesives. Hot applied modified bitumen membranes require special application techniques under cool ambient conditions and/or moderate wind conditions. Consult your local Tremco Representative for specific recommendations.

Plan the placement of POWERply 250 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. Avoid walking on membrane during placement.

POWERply® 250 FR

APPLICATION

CONTINUED

Place POWERply 250 FR in a uniform and continuous application of adhesive. Press the membrane into the adhesive using a 35-75 lb (16-34 kg) 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. 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	4.2 mm (165 mils)	ASTM D6164/ASTM D5147
Tensile Strength @ 0°F (-18°C)	180 lbf/in MD (31.5 kN/M) 120 lbf/in XMD (21.0 kN/M)	ASTM D6164/ASTM D5147
Elongation @ 0°F (-18°C)	45% MD 50% XMD	ASTM D6164/ASTM D5147
Tensile Strength @ 77°F (25°C)	105 lbf/in MD (18.3 kN/M) 80 lbf/in XMD (14 kN/M)	ASTM D6164/ASTM D5147
Elongation @ 77°F (25°C)	55% MD 70% XMD	ASTM D6164/ASTM D5147
Ultimate Elongation @ 77°F (25°C)	60% MD 75% XMD	
Tear Strength @ 77°F (25°C)	180 lbf MD (800 N) 120 lbf XMD (533 N)	ASTM D6164/ASTM D5147
Low Temp Flex	-20° F (-29° C)	ASTM D6164/ASTM D5147
Dimensional Stability	Pass	ASTM D6164/ASTM D 5147
Compound Stability @ 215°F (102°C)	Pass at 250° F (121° C)	ASTM D6164/ASTM D5147
Granule Loss	0.7g	ASTM D6164/ASTM D5147

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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