

POWERply® Standard FR GT24W

A Highly Reflective, Granule Surfaced Modified Bitumen Membrane

DESCRIPTION

POWERply® Standard FR GT24W is a fire rated, fiberglass reinforced, SBS modified bitumen membrane. This membrane is surfaced with an ultra-white granule surfacing, which is highly reflective. POWERply Standard FR GT24W is also asbestos free. POWERply Standard FR GT24W exceeds ASTM D 6163, Type I, Grade G.

BASIC USES

POWERply Standard FR GT24W is designed for application in both hot and cold applied roof systems where a granule surfaced membrane is desired. POWERply Standard FR GT24W is a component of many hot and cold applied Class A fire rated roof systems. Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations. POWERply Standard FR GT24W exceeds the minimum requirements for aged solar reflectance per the 2015 International Energy Conservation Code (Chapter 4, Section C402.3.1).

DIMENSIONS

POWERply Standard FR GT24W is a 4.0mm (0.157 in.) thick membrane. Roll covers 95.8 sq. ft. (8.9m²) when applied, with roll dimensions of 39 3/8" x 32'10" (1m x 10.01m). Approximate roll weight is 96 lbs. (45.8 kg). Available in pallets only.

APPLICATION

General Application Data: 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.

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 GT24W: For application in cold process adhesive, cut POWERply Standard FR GT24W in 16 to 18' (4.9-5.5 m) lengths maximum. Allow lengths to relax. Above 55°F (13°C): 60 minutes minimum. Below 55°F (13°C): 120 minutes minimum.

Hot Applied POWERply Standard FR GT24W: THERMastic, THERMastic 80, and Premium IV Asphalt are recommended as adhesives for POWERply Standard FR GT24W. 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 GT24W 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 GT24W in a uniform and continuous application of adhesive. For cold process applications, 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.

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APPLICATION

CONTINUED


Lap selvage 4" (100mm) minimum; end laps 6" (150mm) minimum. Offset laps from base laps. Stagger ends 36" (1 m) minimum. Side laps and end laps may be adhered using hot or cold applied methods. Electric hot air heat welding equipment with a 4" air nozzle is the preferred method for adhering lap areas. However, hot bitumen and cold adhesives may be used. To assure complete and uniform adhesion, adhesive should exude slightly past lap edges.

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	0.157 in. (4 mm)		ASTM D5147
Tensile strength @ 0°F (-18°C)	120 lbf/in. MD (21kN/m), 115 lbf/in. XMD (20kN/m)		ASTM D5147
Elongation at 0°F (-18°C)	2.6% MD, 2.6% XMD		ASTM D5147
Tensile Strength @ 77°F (25°C)	70 lbf/in MD (12.3kN/m), 50 lbf/in XMD (8.8 kN/m)		ASTM D5147
Elongation at 77°F (25°C)	4% MD, 4% XMD		ASTM D5147
Tear strength at 77°F (25°C)	100 lbf MD (445N), 90 lbf XMD (400N)		ASTM D5147
Low Temp Flex	-10°F (-23°C)		ASTM D5147
Dimensional Stability	pass		ASTM D5147
Compound Stability @ 215°F (102°C)	pass		ASTM D5147
	INITIAL	AGED*	
Solar Reflectance	0.72	0.64	ASTM C1549
Thermal Emittance	0.90	0.90	ASTM C1371
SRI	89	78	ASTM E1980
Aged Solar Reflectance		0.56	2015 IECC
Reference Value			Chapter 4 C402.3.1

	Initial		Weathered	
	Solar Reflectance	0.72	0.64	
Thermal Emittance	0.90	0.90		
Rated Product ID Number	0612-0024			
CRRC Licensee ID Number	0612			
Classification	Production Line			

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

*Aged per ASTM D7987 and CRRC-1

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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