

POWERply® Standard FR GT24W

A Highly Reflective, Granule Surfaced Modified Bitumen Membrane

Composition: 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 Use: 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).

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.

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.

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. The use of FAS-n-Free® Adhesive for solvent free fastener free insulation attachment

is the preferred method of securement unless otherwise specified.

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.

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

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equipment with a 4" air nozzle is the preferred method for adhering lap areas. However, hot bitumen and cold adhesives such as POWERply Standard Cold Adhesive, POWERply Rubberized Cold Adhesive, BURmastic Adhesive SF, and Tremco LF Adhesive may be used. To assure complete and uniform adhesion, adhesive should exude slightly past lap edges.

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

Availability and Cost: Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000.

Maintenance: Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

Guarantee/Warranty: Tremco Incorporated warrants POWERply Standard FR GT24W to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Technical Services: Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service staff.

Statement of Policy and Responsibility: Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation.


As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility

Physical Performance Characteristics

POWERply® Standard FR GT24W

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 at 215°F (102°C)	pass	ASTM D5147
Reflectance (initial)	Initial 72%	ASTM C1549
Emissivity	Aged* 67%	ASTM C1371
SRI (initial)	0.89	ASTM E1980
	88	
	81	
*Aged per ASTM D7987 and CRRC-1		
Aged Solar Reflectance	0.562	2015 IECC Chapter 4 C402.3.1

ty for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain the opinion of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.

	Rapid		
	Initial	Ratings*	Weathered
 COOL ROOF RATING COUNCIL® RAPID RATINGS	Solar Reflectance	0.72	0.67* Pending
	Thermal Emittance	0.89	0.89* Pending
	Rated Product ID	0612-0024	
	Licensed Manufacturer ID	0612	
	Classification	Production Line	
*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced by the measured three-year aged values upon completion of the weathering process. 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 effects 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.			

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