

# POWERply® Standard FR T24

## A Highly Reflective, Factory Coated, Granule Surfaced Modified Bitumen Membrane

**Composition:** POWERply® Standard FR T24 is a fire rated, granule surfaced weathering membrane with factory applied, white, reflective, acrylic coating. It consists of specially selected bitumens, modified with compatible SBS elastomers and a glass reinforcing mat. POWERply Standard FR T24 is also asbestos free. POWERply Standard FR T24 exceeds ASTM D 6163-00, Type I, Grade G.

**Basic Use:** POWERply Standard FR T24 is designed for application in cold applied roof systems where a granule surfaced membrane is desired. POWERply Standard FR T24 has a fire rating of Class A.

A roof system with POWERply Standard FR T24 as the top membrane meets the requirements of California's Title 24 Energy Efficiency Standards for Residential and Non-Residential Buildings and has been tested according to the standards of the Cool Roof Rating Council.

**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:** Available in 4.0 mm thick, 1 meter wide rolls. 95.8 square foot (8.9 m<sup>2</sup>) per roll as applied. Approximate roll weight is 106 lbs. (48 kg) Membranes are furnished with a factory applied white granule surfacing and a factory applied white coating. 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 T24:** For application in cold process adhesive, cut POWERply Standard FR T24 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

**Application:** Plan the placement of POWERply Standard FR T24 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 T24 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.

Lap selvage 4" (100mm) minimum; end laps 6" (150mm) minimum. Offset laps from base laps.

	<b>Initial</b>	<b>Weathered</b>	
	<b>Solar Reflectance</b>	<b>0.76</b>	<b>0.61</b>
	<b>Thermal Emittance</b>	<b>0.85</b>	<b>0.92</b>
	Rated Product ID Number	0612-0008	
Licensed Seller ID Number	0612		
Classification	Production Line		
<small>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.</small>			
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>			

Stagger ends 36" (1 m) minimum. To assure complete and uniform adhesion, adhesive should exude past lap edges.

POWERply White on White Adhesive is recommended for use as the cold process membrane adhesive. The white adhesive which exudes along each lap edge must be wiped back onto the top ply edge of the lap, to fully cover the black ply edge. This provides a consistent white surface finish and protects the coated membrane edge from long-term weathering.

**Coverage rates:**

Cold process interply application rate: 2 gal/SQ (0.8 L/m<sup>2</sup>). Increase coverage to 3.0 to 3.5 gal/SQ (1.2-1.4 L/m<sup>2</sup>) in end lap areas.

**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 T24 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 weather-

Physical Performance Characteristics		
POWERply® Standard FR T24		
Property	Typical Value	Test Method
Thickness	0.157 in. (4 mm)	ASTM D 5147
Tensile strength @ 0°F (-18°C)	130 lbf/in. MD 100 lbf/in. XMD	ASTM D 5147
Elongation at 0°F (-18°C)	5% MD 5% XMD	ASTM D 5147
Tensile Strength @ 77°F (25°C)	70 lbf/in MD (14.1kN/m) 50 lbf/in XMD (13.2 kN/m)	ASTM D 5147
Elongation at 77°F (25°C)	4% MD 4% XMD	ASTM D 5147
Tear strength at 77°F (25°C)	100 lbf MD (462N) 90 lbf XMD (480N)	ASTM D 5147
Low Temp Flex	-10°F	ASTM D 5147
Dimensional Stability	pass	ASTM D 5147
Compound Stability at 215°F (102°C)	pass	ASTM D 5147
SRI (initial)	93	ASTM E 1980
SRI (3 year)	74	ASTM E 1980

proofing 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 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.



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