

WeatherBond RBR White EPDM Membranes



Overview

WeatherBond RBR White EPDM is a white 60-mil-thick (1.52 mm) non-reinforced Ethylene Propylene Diene Monomer (EPDM) based elastomeric homogenous roof covering. This roofing membrane may be used for new single-ply roof construction and re-roofing applications. This white-on-black membrane is available in widths of up to 30' (9 m) and lengths of up to 100' (30 m). WeatherBond RBR White EPDM membrane meets ENERGY STAR[®], LEED[®] and California Title 24 cool roof standards for initial and aged solar reflectance and thermal emittance.

Features and Benefits

- No special equipment required for installation
- WeatherBond RBR EPDM has years of proven performance
- Available with Pre-Applied Seam Tape Technology
- Ability to be installed over a variety of decks
- Combines a white membrane with the ease of installing EPDM
- Full line of P&S Accessories
- ENERGY STAR-qualified EPDM membrane
- CRRC (Cool Roof Rating Council) Certified and can contribute toward LEED credits
- Fully adhered application allows for installation on any roof slope

WeatherBond RBR Pre-Applied Seam Tape Technology

With WeatherBond's Pre-Applied Seam Tape technology, most of the labor to create seams between membrane panels is completed in a quality-controlled, state-of-the-art environment. This process results in a reliable seam with greater peel and shear strengths and with no entrapped air bubbles. Consistent placement of the Pre-Applied Seam Tape also maximizes the splice area and results in a high-quality seam. WeatherBond's Pre-Applied Seam Tape is available on all WeatherBond RBR White membranes up to 30' (9 m) in width, providing the fastest way to complete a seam in today's roofing market.

Installation

WeatherBond RBR White 60-mil-thick (1.52 mm) membrane is primarily utilized in fully adhered roofing systems.

Fully Adhered Roofing System: insulation is mechanically attached or adhered to the roof deck. The substrate and membrane are coated with WeatherBond EPDM Bonding Adhesive. The membrane is then rolled into place and broomed down. To complete seams between two adjoining membrane panels, apply EPDM primer to the splice area in conjunction with WeatherBond Pre-Applied Seam Tape. As an alternative, WeatherBond's hand-applied Peel & Stick Seam Tape may be used.

CONSULT WEATHERBOND INSTALLATION GUIDE FOR COMPLETE INSTALLATION INFORMATION.

Precautions

1. Sunglasses that filter out ultraviolet light are strongly recommended as the white surface intensifies sunlight through reflection.
2. White surfaces reflect heat and may become slippery due to frost and ice build-up. Exercise extreme caution during cold conditions to prevent falls.
3. Care must be exercised when working close to a roof edge when surrounding area is snow covered as roof edge may not be clearly visible.
4. Use proper stacking procedures to ensure sufficient stability of the materials.
5. Exercise caution when walking on wet membrane. Membranes are slippery when wet.

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6. Membranes with Pre-Applied Seam Tape should not be exposed to prolonged jobsite storage temperatures in excess of 90°F (32°C), otherwise the shelf life of the P&S Tape may be affected.
7. When WeatherBond RBR White Membrane with Pre-Applied Seam Tape is used, shade the tape end of the rolls until ready to use in warm, sunny weather.

Typical Properties and Characteristics

Property	Test Method	SPEC. (Pass)	Typical
Tolerance on nominal thickness, %	ASTM D412	± 10	± 10
Weight, lbm/ft ² (kg/m ²)			0.39 (1.9)
Tensile Strength, min, psi (Mpa)	ASTM D412	1305 (9)	1465 (10.1)
Elongation, Ultimate, min, %	ASTM D412	300	540
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)	200 (35.0)
Factory Seam Strength, min	Modified ASTM D816	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 1 week @ 240°F (116°C)	ASTM D573		
Tensile Strength, min, psi (Mpa)	ASTM D412	1205 (8.3)	1345 (9.3)
Elongation, Ultimate, min, %	ASTM D412	200	280
Tear Strength, min, lbf/in (kN/m)	ASTM D624	125 (21.9)	185 (32.4)
Linear Dimensional Change, max, %	ASTM D1204	± 1.0	-0.2
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen is at 50% strain	ASTM D1149	No Cracks	No Cracks
Brittleness Temp., max, °F (°C)*	ASTM D746	-49 (-45)	-67 (-55)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2	+3.3
Water vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.02
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temp.	ASTM D4637 Conditions	No Cracks No Cracking	No Cracks No Cracking

* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

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