

WeatherBond EPDM

Peel & Stick (PAS) Reinforced Membrane



Overview

WeatherBond Peel & Stick (PAS) Reinforced EPDM Membrane offers added puncture and hail resistance, provides significant labor savings, and qualifies as a Low-VOC option with no solvent-related odors. WeatherBond PAS EPDM is a nominal 60-mil reinforced EPDM membrane laminated to a 100%-solid pressure-sensitive adhesive and is available in 10' x 100' and 10' x 50' (3m x 30m and 3m x 15m) rolls. The release liner is silicone-coated on one side for consistent release from the adhesive.

Features and Benefits

- Internally reinforced sheets add puncture-resistance and toughness and offer a limited puncture warranty)
- WeatherBond's Pre-Applied Seam Tape technology and full line of Peel & Stick accessories enhance workmanship quality
- EPDM is the most dimensionally stable, heat-resistant membrane and stays flexible even in extremely cold conditions
- Extruded manufacturing technology results in seamless sheets
- Up to 80% productivity increase compared to traditional bonding adhesive
- Eliminates loading, stirring, application and disposal of bonding adhesive
- Pre-cleaned sheet allows roller application of the primer



Sustainable Attributes

WeatherBond Roofing Systems' focus has always been innovation - Innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. WeatherBond is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- WeatherBond EPDM has a history of proven performance and industry leading weathering resistance (35,320 kJ/m² total radiant exposure without cracking or crazing
- Dark-colored EPDM is the smart choice in colder climates
 - Reduces heating costs which are generally 3 to 5 times greater than air conditioning costs
 - Reduces carbon footprint by lowering heating costs
 - Reduces safety hazard from snow and ice accumulation
 - Reduces hazardous conditions from frost, dew or ice that is difficult to see on white membranes
 - Reduces potential condensation problems
- Life Cycle Assessment using EPA's TRACI model analyzed EPDM, TPO, PVC and Modified Bitumen
 - EPDM had the lowest global warming potential
 - EPDM had the lowest acid rain impact
 - EPDM had the lowest contribution to smog
- Numerous studies confirm that EPDM's elongation and weathering resistance result in superior hail damage resistance

WeatherBond's Pre-Applied Seam Tape Technology

With WeatherBond's patented 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 saves time on the seaming process, resulting in a reliable seam with no entrapped air bubbles. Consistent placement of the Pre-Applied Seam Tape also maximizes the splice area resulting in a high-quality seam.



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Installation

WeatherBond PAS EPDM membrane is approved for application to DensDeck® Prime, SECUROCK®, XFP, XFP HD, XFP HD Plus, XP Polyiso Insulation and clean concrete. Cover board or insulation is adhered or mechanically attached to the roof deck with SecurFast™ or AccuTrac® Insulation Fastening Plates. Acceptable wall substrates include standard plywood, OSB, masonry block, and brick.

Walls must be primed with CAV-GRIP® III or bonding adhesive and allowed to flash-off.

Minimum temperature requirements for WeatherBond PAS Reinforced EPDM installation are based on substrate and fastening method as outlined below:

- 40° F (4° C) ambient and 50° F (10° C) sheet temperature after relaxation for all approved substrates and fastening methods.
- 32° F (0° C) ambient and 40° F (4° C) sheet temperature after relaxation for XP Polyiso, DensDeck Prime and Securock fastened with urethane adhesive.

The surface to which the membrane is to be applied must be very clean. Prior to membrane placement, the surface of the insulation or underlayment board must be cleaned of dust and other foreign matter using a fine push broom or a blower. Unroll membrane and allow to relax for 30 minutes.

Option 1

1. Remove the release liner on one half of the sheet starting from the split in the liner at the middle of the sheet. The liner should be removed at an angle to reduce splitting or tearing.
2. Roll the membrane onto the substrate at an angle while avoiding wrinkles. When applying WeatherBond PAS EPDM membrane, it is recommended to maintain a large curve (radius) on the leading edge of the membrane. This will help eliminate creases and bubbles that cannot be removed after the sheet is in place.
3. Broom the membrane in place starting from the middle of the 10'-wide sheet and working towards the outer edge.
4. Fold back the remaining half of the sheet and repeat the above process.

Option 2

1. Pull both release liners off simultaneously from underneath the membrane at a low angle similar to removing the release film from splice tape.
2. Push a broom lengthwise down the middle of the sheet to tack it in place. Continue brooming to push air out from the middle of the sheet towards the edges.
3. After brooming, roll the membrane with a segmented roller to ensure full contact with the substrate. Roller must weigh at least 50 lbs. (22 kg) per linear foot.
4. To complete seams between two adjoining membrane panels, apply primer to the splice area in conjunction with WeatherBond's Pre-Applied Seam Tape.
5. Strip-in end laps with WeatherBond's 6" Peel & Stick Overlayment Strip or Peel & Stick Cured Cover Strip per detail WBRC-2. See details WBRC-12.1, 12.3, or 12.4 for perimeter securement options

REVIEW CURRENT WEATHERBOND INSTALLATION INSTRUCTIONS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Use proper stacking procedures to ensure sufficient stability of the materials and to keep the rolls out of the water line.
- Exercise caution when walking on a wet membrane. Membranes are slippery when wet.
- 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 Pre-Applied Seam Tape may be affected.
- Shade the tape end of the rolls until ready to use in warm, sunny weather.
- WeatherBond Pre-Applied Seam Tape has a shelf life of 1 year.
- **Walls must be primed with bonding adhesive or CAV-GRIP III.**
- **The PAS reinforced EPDM membrane temperature must reach the required minimum temperature prior to installing.**



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Typical Properties and Characteristics

Physical Property	Test Method	SPEC. (PASS)	Typical
Tolerance on Nominal Thickness, %	ASTM D751	±10	±10
Thickness Over Scrim, min, in. (mm) .060	ASTM D4637 Annex	0.015 (0.381)	0.020 (0.508)
Weight, lbf/ft² (kg/m²) .060			0.46 (2.2)
Breaking Strength, min, lbf (N) 0.60	ASTM D751 Grab Method	90 (400)	120 (545)
Elongation, Ultimate, min, % 0.60	ASTM D412 Die C	250**	480**
Tearing Strength, min, lbf (N) 0.60	ASTM D751 B Tongue Tear	10 (45)	45 (200)
Brittleness Point, max, °F (°C)*	ASTM D2137	-49 (-45)	-49 (-45)
Resistance to Heat Aging* Properties after 4 weeks @ 240°F (116°C)	ASTM D573		
Breaking Strength, min, lbf (N)	ASTM D751	80 (355)	182 (823)
Elongation, Ultimate, min, %	ASTM D412 Die C	200**	250**
Linear Dimensional Change, max, %	ASTM D1204	±1.0	-1.0
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen wrapped around 3 in. mandrel	ASTM D1149	No Cracks	No Cracks
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2**	5.5**
Water Vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.02
Fungi Resistance	ASTM G21	N/A	0 (No Growth)
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temperature At 0.35 W/m ² irradiance, 80°C black panel temperature	ASTM G155	No Cracks No Cracking 7,560 kJ/m ² 3,000 hrs 6,000 hrs	No Cracks No Cracking 35,320 kJ/m ² 14,000 hrs 28,000 hrs

* 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.

** Specimens to be prepared from coating rubber compound, vulcanized in a similar method to the reinforced product.

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Note: WeatherBond PAS reinforced EPDM membrane meets or exceeds the minimum requirements set forth by ASTM D4637 for Type II reinforced EPDM single-ply roofing membranes.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index	9
Corporate Sustainability Report	Yes



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