

WeatherBond EPDM

Peel & Stick (PAS) White Non-Reinforced Membrane



Overview

WeatherBond Peel & Stick (PAS) White Non-Reinforced EPDM membrane offers excellent weatherability and hail resistance, provides significant labor savings, and qualifies as a Low-VOC option with no solvent-related odors. WeatherBond PAS is a nominal 60-mil non-reinforced EPDM membrane laminated to a 100%-solid pressure-sensitive adhesive and is available in 10' x 100' (3m x 30m), 10' x 50' (3m x 15m) and 5' x 40' (1.5m x 12.2m). Three inch Pre-Applied Seam Tape is factory laminated to the edge of 10' wide PAS and a 3" salvage edge is provided on 5' wide PAS EPDM. The release liner is silicone-coated on one side for consistent release from the adhesive.

WeatherBond PAS White EPDM membrane is formulated with fire retardants to inhibit the spread of flame and meets or exceeds UL Class A requirements.

Features and Benefits

- Industry-leading resistance to outdoor weathering
- 3" Pre-Applied Seam Tape Technology and full line of Pressure-Sensitive accessories enhance workmanship quality
- EPDM is the most dimensionally stable, heat-resistant membrane and stays flexible even in very cold temperatures
- Zero fungi growth in ASTM G21 test
- Extruded manufacturing technology produces seamless sheets that are UL-Approved
- 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
- No fumes or odors to disrupt building occupants



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Sustainable Attributes

WeatherBond's 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 white EPDM has a history of proven performance
- 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
- California Title 24 compliant
- See Radiative Properties and LEED Information tables below for additional attributes

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 reliable seams with no entrapped air bubbles. Consistent placement of the seam tape also maximizes the splice area, resulting in a high-quality seam.

Installation

WeatherBond PAS White EPDM membrane is approved for application to DensDeck® Prime, SECUROCK®, XFP HD, XFP HD Plus, and clean concrete. Cover boards are adhered or mechanically attached to the roof deck. SecurFast™ or AccuTrac® insulation fastening plates are required. 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.**

WeatherBond PAS White EPDM membrane may only be installed when the ambient temperature is 32°F (0°C) and rising.

The surface to which the membrane will be applied must be very clean and dry. 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 blower. **Unroll membrane, allowing it to relax and expand 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. Pull the membrane onto the substrate from the middle, avoiding wrinkles. When installing WeatherBond PAS White 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 toward the outer edge.
4. Fold back the remaining half of the sheet and repeat the above process.

Option 2 (preferred method in cooler conditions)

1. Pull both release liners off simultaneously from underneath the membrane at a low angle, similarly to removing the release film from splice tape.
5. 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

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.

To complete seams between two adjoining membrane panels, apply primer to the splice area in conjunction with WeatherBond's Pre-Applied Seam Tape. Strip-in end laps with 6" Cured Cover Strip.

REVIEW CURRENT WEATHERBOND INSTALLATION INSTRUCTIONS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on a wet membrane. Membranes are slippery when wet.
- Sunglasses that filter out ultraviolet light are strongly recommended as the white surface intensifies sunlight through reflection.
- White surfaces reflect heat and may become slippery due to frost and ice build-up. Exercise extreme caution during cold conditions to prevent falls.
- Use caution when working close to a roof edge when surrounding area is snow-covered as roof edge may not be clearly visible.
- 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 tape may be affected.
- When membranes with Pre-Applied Seam Tape are used in warm, sunny weather, shade the tape end of the rolls until ready to use.
- Pre-Applied Seam Tape has a shelf life of 1 year.
- **Walls must be primed with CAV-GRIP III or bonding adhesive.**
- **PAS membrane must be allowed to relax and expand prior to installing.**

Radiative Properties for Cool Roof Rating Council (CRRC) & LEED®

Physical Property	Test Method	WeatherBond PAS White EPDM
CRRC - Initial solar reflectance	ASTM C1549	0.79
CRRC - Solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.71
CRRC - Initial thermal emittance	ASTM C1371	0.86
CRRC - Initial thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.89
LEED - Thermal emittance	ASTM E408	0.91
SRI - (Solar Reflectance Index)	ASTM E1980 (initial) 3 year aged	98 87



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Typical Properties and Characteristics

Physical Property	Test Method	SPEC. (PASS)	Typical
Tolerance on Nominal Thickness, %	ASTM D412	±10	±10
Weight, lbs/ft² (kg/m²) 60-mil			0.39 (1.91)
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)	187 (32.7)
Factory Seam Strength, min	Modified ASTM D816	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 28 days @ 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, total radiant exposure at 0.70 W/m ² irradiance, 80°C black panel temperature	ASTM G155	No Cracks No Cracking 7,560 kJ/m ² 3,000 hrs	No Cracks No Cracking 25,200 kJ/m ² 10,000 hrs
At 0.35 W/m ² irradiance, 80°C black panel temperature		6,000 hrs	20,000 hrs
Air Permeance	ASTM E2178	(0.02 L/s*m ²)	Pass

*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.

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 White Non-Reinforced EPDM Membrane with Pre-Applied Seam Tape meets or exceeds the minimum requirements set forth by ASTM D4637 for Type I non-reinforced EPDM single-ply roofing membranes.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflective Index	98
Corporate Sustainability Report	Yes



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