

Get the Royal Edge Advantage with RPI

Royal Edge SA EPDM Membrane

ROYAL EDGE EPDM MEMBRANE

DESCRIPTION

RPI Royal Edge SA EPDM membrane is a Self-Adhered, non-reinforced EPDM membrane sheet designed to provide a labor saving, Low-VOC compliant alternative to Royal Edge Bonding Adhesives. A quick release silicone liner and a solid pressure-sensitive adhesive eliminates solvent adhesive odors and having to deal with empty adhesive containers, roller covers, and other adhesive application related accessories. Royal Edge SA EPDM offers excellent hail resistance and long-term performance.

The membrane is available in a non-reinforced .60mil (1.52 mm), thickness with widths of 10' (3m) and lengths of 100' (30m). Royal Edge SA EPDM membrane meets or exceeds UL Class A testing criteria for Fire Retardant roofing membranes.

THE RPI ROYAL EDGE ADVANTAGE

WARRANTIES

RPI offers the longest Membrane Only Warranty in the roofing industry. Up to 40 Years when installed as a Fully Adhered System over an RPI approved substrate/assembly.

RPI Membrane Only Warranties are free and available for residential as well as commercial installations.

RPI Labor and Material Warranties are available for commercial/industrial installations thru the RPI Registered Applicators Program.

DURABILITY

After decades of proven in-field performance, RPI EPDM is still performing, showing little signs of aging while maintaining all the characteristics that have made EPDM the roofing industries longest performing single-ply membrane. RPI Royal Edge EPDM remains dimensionally stable and flexible down to -40° F (5° C).

The excellent resistance to weathering and high elongation qualities result in superior resistance to hail damage. (UL 2218 Class 4).

BEST COLD WEATHER MEMBRANE

Dark membranes are better suited to cold climates with more heating days than cooling days. Buildings and homes that are properly insulated will benefit from solar heat gain resulting in reduced snow and ice build-up. Lower heating costs reduce the carbon footprint.

FASTER EASIER APPLICATION

RPI's SA Sheet means means less clean up time and less land fill waste.

ENVIRONMENTAL

The Life Cycle Assessment for EPDM, TPO, PVC, and Modified Bitumen using EPA's TRACI model determined:
 EPDM has the lowest global warming potential
 EPDM has the lowest acid rain impact
 EPDM has the lowest contribution to smog

APPROVALS

RPI Royal Edge SA EPDM is a .060 mil membrane designed to be installed as part of an FM Approved and UL Classified Fully Adhered Assembly.

Typical Properties and Characteristics

Physical Property	Test Method	SPEC. (PASS)
Tolerance on Nominal Thickness, %	ASTM D412	±10
Tensile Strength, min, psi (MPa)	ASTM D412	1305 (9)
Elongation, Ultimate, min, %	ASTM D412	300
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)
Factory Seam Strength, min	Modified ASTM D816	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)
Elongation, Ultimate, min, %	ASTM D412	200
Tear Strength, min, lbf/in (kN/m) Linear	ASTM D624	125 (21.9)
Dimensional Change, max, %	ASTM D1204	±1.0
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
Brittleness Temp., max, °F (°C)*	ASTM D746	-49 (-45)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2
Water Vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10
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
At 0.35 W/m ² irradiance, 80°C black panel temperature		6,000 hrs
Weight, lbs/ft² (kg/m²) 60-mil		0.41(2.00 Kg/m ²)

*Not a quality control test due to the time required for the test or the complexity of the test. All tests are run on a statistical basis to ensure overall long-term performance of the membrane.

Note: Roofing Products International Royal Edge Non-Reinforced EPDM Membrane meets or exceeds the minimum requirements set forth by ASTM D4637 for Type I non-reinforced EPDM single-ply roofing membranes.

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.

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INSTALLATION

RPI Royal Edge SA EPDM is approved for installation to Polyisocyanurate Insulation and Cover Boards, DensDeck Prime, SECUROCK, and clean concrete. Approved cover and insulation boards must be mechanically attached or adhered to the roof deck with approved fasteners or adhesive. Acceptable wall substrates include OSB, Plywood (exterior grade), block, brick and smooth masonry walls. NOTE: Walls must be clean and primed with Bonding Adhesive or CAV-GRIP III and allowed to flash-off before the SA membrane is applied. All surfaces must be clean, dry, and free of dust or debris. Clean the surface area with a push broom or power blower.

IMPORTANT: Ambient air temperature must be 40° F (4° C) and rising before installing Royal Edge SA Membrane. Allow the membrane to relax for 30 minutes. The membrane temperature must be 50° F (10° C) or higher before installation.

Installation Option 1.

1. After the membrane has properly relaxed and has attained the required installation temperature, fold the membrane in half, exposing the split in the liner. Begin by peeling the liner from the membrane, starting at the split. Remove the liner from the membrane at an angle while keeping the release liner low to the deck to prevent it from "catching air".
2. Pull the membrane onto the substrate starting at the middle while working towards the ends of the membrane. Maintaining a leading edge at the middle will eliminate wrinkles and bubbles in the membrane.
3. Before installing the other half, broom the adhered membrane into place starting in the middle and brooming towards the outer edge.
4. Fold back the remaining membrane and repeat steps 1, 2, and 3.

After brooming, roll the entire membrane with a steel, segmented roller. The roller must weigh a minimum of 50 lbs. (22kg.). A roller must be used to ensure complete contact with the substrate.

Installation Option 2.

1. After the membrane has properly relaxed and attained the required installation temperature, begin removing the release liner, starting at the split in the middle and removing the length of the roll. Remove the liner using the same method to remove Seam Tape liner. Always maintain the position of the membrane while removing the liner.
2. Push broom the membrane lengthwise down the middle to set its position. Continue brooming from the middle to the outside edges to remove wrinkles or air pockets.

After brooming, roll the entire membrane with a steel, segmented roller. The roller must weigh a minimum of 50 lbs. (22kg.). A roller must be used to ensure complete contact with the substrate.

SEAMING PANELS

Apply Seam Tape Primer to splice area when using membrane with factory applied tape. End laps (butt joints) must be clean and primed with Seam Tape Primer before being stripped in with 6 inch Cured Cover Tape.

PRECAUTIONS

Factory Applied Seam Tape has a shelf-life of one year.

Do not allow membrane with Factory Applied Seam Tape to be exposed to prolonged periods of storage temperatures which exceed 90°F (32°C).

When using SA membrane on warm, sunny days, keep the Factory Applied Seam Taped ends of the unrolled membrane cool by covering the ends of rolls until installation.

All walls must be primed with Cav-Grip III or RPI Bonding Adhesive.

RPI SA membrane must be allowed to completely relax and reach a minimum temperature of 50°F (10°C) or above prior to installation.

STORAGE

Store in unopened original packaging in a cool, dry, space. Do not store in areas exposed to the sun, rain, or snow.

Royal Edge SA EPDM membrane with factory applied tape has a shelf life of one year.

Available SA Roll Sizes

Width	Length
10 ft.	50 ft., 100 ft.

LEED® Information

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
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