

# VERSIGARD® DUSTED NON-REINFORCED EPDM MEMBRANES



## Overview

Versico's VersiGard Dusted Non-Reinforced EPDM membranes are available in thicknesses of 45-mil (1.14 mm) and 60-mil (1.52 mm), widths of up to 50' (15 m) and lengths of up to 200' (60 m). Ideal for new construction and re-roofing applications, this membrane is Fire Retardant (FR) membrane that is specially formulated to inhibit the spread of flame and meet or exceed code body testing criteria for fire-retardant roofing membranes.

## Features and Benefits

- Versico EPDM has 50 years of proven performance and industry-leading resistance to outdoor weathering with 41,580 kJ/m<sup>2</sup> total radiant exposure without cracking or crazing
- QAT Seam Technology and full line of Quick-Applied flashing accessories greatly enhance workmanship quality by simplifying the contractors' job
- Dark-colored EPDM is the smart choice in colder climates:
  - Reduces heating costs, which are generally 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 that can erode performance
- Lifecycle 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 and real-world experience confirm that VersiGard EPDM's 465% elongation and weathering resistance result in superior hail damage resistance (UL 2218 class 4 rating)
- EPDM is the most dimensionally stable heat-resistant membrane and stays flexible even in extremely cold conditions down to -40°F (-40°C): see Flexibility/Torsion DMA data
- Wide array of design choices that are UL and FM approved
- Industry-leading 15-, 20-, and 25-year warranties are available
- Versico manufactures all the major components of a typical roofing system including membrane, flashings, tapes, adhesives, sealants, insulations and insulating cover boards

## Versico's QAT Seam Technology

With Versico's Quick-Applied Tape (QAT) Seam 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 no entrapped air bubbles. Consistent placement of the QAT also maximizes the splice area and results in a high-quality seam. Versico QAT is available on all VersiGard EPDM membranes up to 30' (9 m) in width, providing the fastest way to complete a seam in today's roofing market. QAT has a shelf life of one year.

## Installation

VersiGard 45-mil (1.14 mm) and 60-mil (1.52 mm) thick membranes are typically utilized in Fully Adhered (.060" only), Ballasted Roofing Systems and Loose-Laid Protected Roofing Systems.

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

**Ballasted Roofing Systems:** Insulation is loose-laid over the roof deck. Membrane is loose-laid over the insulation and secured with a minimum 10 lbs (4.5 kg) of ballast per square foot. Inverted Ballasted Roofing System is a similar system with the insulation installed on top of the membrane. To complete seams between two adjoining membrane panels, apply primer to the splice area in conjunction with Versico's QAT. As an alternative, Versico's hand-applied QA Seam Tape may be used.

**Follow these steps for splicing in temperatures below 40°F (5°C):**

1. Heat the primed area of the bottom membrane with a hot-air gun as the top sheet with QAT is applied and pressed into place.
2. Prior to rolling the splice area with a 2"-wide steel hand roller, apply heat to the top side of the membrane with a hot-air gun. The heated surface should be hot to the touch. Be careful not to burn or blister the membrane.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

## Precautions

1. Use proper stacking procedures to ensure sufficient stability of the materials.
2. Exercise caution when walking on wet membrane. Membranes are slippery when wet.
3. Membranes with QAT should not be exposed to prolonged jobsite storage temperatures in excess of 90°F (32°C), otherwise the shelf life of the QAT may be affected.
4. When membranes with QAT are used, shade the tape end of the rolls until ready to use in warm, sunny weather.
5. QAT has a shelf life of one year.

### TYPICAL PROPERTIES AND CHARACTERISTICS

Property	Test Method	SPEC. (Pass)	.045	.060
Tolerance on nominal thickness, %	ASTM D412	± 10	± 10	± 10
Weight, lbs/ft <sup>2</sup> (kg/m <sup>2</sup> )			0.29 (1.4)	0.39 (1.9)
Tensile Strength, min, psi (Mpa)	ASTM D412	1305 (9)	1600 (11.0)	1600 (11.0)
Elongation, Ultimate, min, %	ASTM D412	300	480	465
Tear Strength, min, lbf/in (kN/m)	ASTM D624 (Die C)	150 (26.3)	200 (35.0)	200 (35.0)
Factory Seam Strength, min	Modified ASTM D816	Membrane Rupture	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)	1500 (10.3)	1450 (10.0)
Elongation, Ultimate, min, %	ASTM D412	200	225	280
Tear Strength, min, lbf/in (kN/m)	ASTM D624	125 (21.9)	215 (37.6)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D1204	± 1.0	-0.4	-0.50
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	No Cracks
Brittleness Temp., max, °F (°C)*	ASTM D746	-49 (-45)	-49 (-45)	-49 (-45)
Resistance to Water Absorption* After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8, -2	+2.0	+2.0
Water vapor Permeance* Max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.05	0.03
Flexibility/Torsion DMA	ASTM D5279-08	N/A	225 MPa @ -40°F	225 MPa @ -40°F
Fungi Resistance	ASTM G21	N/A	0 (No Growth)	0 (No Growth)
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, total radiant exposure at 0.70 W/m <sup>2</sup> irradiance, 80°C black panel temp.	ASTM G155	No Cracks No Cracking 7,560 KJ/m <sup>2</sup> 3,000 hrs	No Cracks No Cracking 41,580 KJ/m <sup>2</sup> 16,500 hrs	No Cracks No Cracking 41,580 KJ/m <sup>2</sup> 16,500 hrs
At 0.35 W/m <sup>2</sup> irradiance, 80°C black panel temperature		6,000 hrs	33,000 hrs	33,000 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.				

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: VersiGard non-reinforced EPDM membrane meets or exceeds the minimum requirements set forth by ASTM D 4637 for Type I non-reinforced EPDM single-ply roofing membranes.

### LEED® INFORMATION

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	0%
Manufacturing Location(s)	Carlisle, PA Greenville, IL
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