

THE VAPROSHIELD SYSTEMS APPROACH

VaproShield promotes a systems approach to building envelope design, incorporating Breathable Membranes for roofs and Flashing Elements resulting in High Performance Building Envelope Systems.

Complete System of Breathable Membranes + Flashing Elements = High Performance Building Envelope Solutions

SlopeShield SA Self-Adhered combines the best properties of a water resistant, vapor permeable membrane and a self-adhering roofing underlayment in one innovative, affordable product. Suitable for all construction types: commercial, institutional, medical and multi-family residential.

SlopeShield SA Self-Adhered is Unsurpassed in Performance

- Zero VOC's
- 59 Perms
- No Primer

With a vapor permeance rating of 59 perms, **SlopeShield SA Self-Adhered** provides the highest breathability in a commercial quality, self-adhering roofing underlayment membrane.

SlopeShield SA Self-Adhered fully bonds to most common roofing substrates providing a water shedding, easy to install, permeable roof underlayment without the use of a primer.

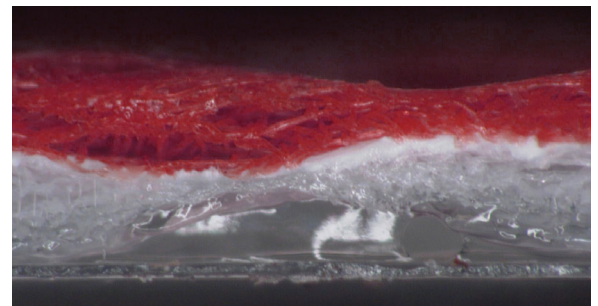
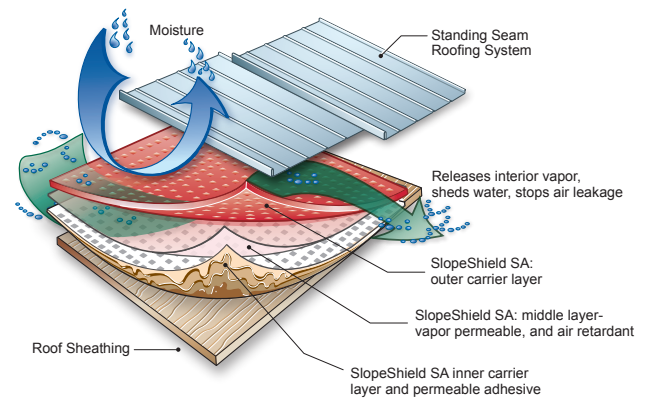
SlopeShield SA Self-Adhered fully bonded membrane system provides a continuous air barrier, enhancing thermal performance by controlling air leakage through seams, joints and roof system penetrations.

Drying Capacity

- High vapor permeability and exceptional liquid water holdout capacity helps prevent damage from moisture.
- Moisture vapor is allowed to escape ensuring good indoor air quality, reducing incidence of condensation, mold, mildew, wood rot, lumber distortion and metal corrosion.

Construction and Installation

- No Primer Required.
- Application over 20°F (-6°C) degrees and rising ensures a wide service temperature range, easily installed in all climates.
- Tough facer laminate resists punctures and tears.
- Textured surface helps reduce slip risks.
- Lightweight rolls install quickly and easily: 59" (1.5 m) x 164' (50 m)
- Self-adhering membrane application reduces time and labor.



SlopeShield SA Self-Adhered is a triple layer polypropylene micro-porous film laminate with a proprietary acrylic vapor permeable adhesive.

Durability and Cost Effectiveness

- High tear, rip and puncture resistance during and after construction reducing repairs and labor costs.
- UV stable for up to four months of exposure.
- Installs easily and quickly, self-adhering directly to plywood and various roofing substrates decreasing installation time.

Environmental Sustainability

- Contributes to LEED points in Indoor Environmental Quality and Energy & Atmosphere.

Compatibility

- Compatible with metal roofing, copper, zinc, clay tile, slate, wood shakes and wood shingles.
- Compatible with typical roofing substrates: DensGlass®, plywood, rigid insulation and concrete.

Warranty

- Standard 20 year material warranty

SLOPESHIELD SA® Self-Adhered

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PROPERTY	STANDARD/TEST	RESULTS			
Tensile Strength	ASTM D1682 AC 48	<u>Control</u> MD – 106.7 lbf/inch (18.7 N/mm) XMD – 83.8 lbf/inch	<u>Accelerated Aged</u> MD – 107.0 lbf/inch (18.7 N/mm) XMD – 81.4 lbf/inch	<u>UV Exposed</u> MD – 97.3 lbf/inch (17.0 N/mm) XMD – 76.7 lbf/inch	
Water Vapor Transmission and Permeance	ASTM E96* (Water Method) AC 207	406.3 g/m ² 24hrs • 3374.8 ng/Pa/s/m ² • 59 Perms			
Air Permeance	ASTM E2178	0.000134 L/s/m ² • 0.0000263 cfm/ft ² PASS			
Water Ponding	AC 48, 24" head of water for 48 hrs.	PASS			
Accelerated Aging	AC48, AC207	PASS			
UV Exposure	AC48, AC207	PASS			
Liquid Water Transmission	ASTM D4869, AC207	PASS			
Puncture Resistance	ASTM D3462 , AC207	PASS			
Pliability	ASTM E48 , AC 207	PASS			
Nominal Thickness	Calibrated Deadweight Micrometer	0.020 inch (0.51mm)			
Basis Weight	Electronic Weight Scale	5.01 oz/yd ² (0.55 oz/ft ²) • 170 g/m ²			

ROOF SLOPE	APPLICATION
1:12	For slip sheet applications only
2:12	Minimum 12" Horizontal/Vertical Lap Seams VaproTape™ required under metal clips and similar penetrations
3:12	Minimum 12" Horizontal/Vertical Lap Seams VaproTape required under metal clips and similar penetrations
4:12 and greater	Minimum 6" Horizontal/Vertical Lap Seams VaproTape is not required for clips

LEED

SlopeShield SA Self-Adhered vapor permeable roof underlayment meets the criteria to contribute to Environmental Quality ("EQ") credit 4.1: Low-Emitting Materials: Adhesives & Sealants, under United States Green Building Council's Rating System for New Construction and Major Renovations (LEED-NC), version 2.2., core and shell (LEED-CS), version 2.0.

BEST PRACTICE

- See SlopeShield SA Self-Adhered Technical Data Sheets for acceptable substrates and surface conditions for placement of roof underlayment membranes.
- Substrate must be clean and dry before installing SlopeShield SA Self-Adhered.
- Install SlopeShield SA Self-Adhered in overlapping shingle format.
- All precautions should be taken to keep structure dry from the elements during construction. VaproShield will not be responsible for consequential damages if SlopeShield SA Self-Adhered is used as a temporary roof covering. Install finished roofing materials as soon as practical.