

1. Product Name

WrapShield SA® Self-Adhered Water Resistive Vapor Permeable Air Barrier Sheet Membrane (WrapShield SA®)

2. Manufacturer

VaproShield, LLC. 915 26th Avenue, NW #C5 Gig Harbor, WA 98335 Phone: (866) 731-7663 USA Canada (866) 871-8263 Fax: (253) 858-3297

Web: www.vaproshield.com or www.vaproshield.ca

3. Product Description

BASIC USE AND APPLICATIONS

WrapShield SA Self-Adhered sheet membrane is used above grade, behind rain screen wall cladding assemblies.

BENEFITS

WrapShield SA Self-Adhered a fully self-adhered weather resistive and air barrier sheet membrane fully bonds to almost any substrate (excluding OSB), does not require the use of primers, emits no VOC's, does not require special equipment for installation. Installation: WrapShield SA Self-Adhered keeps construction schedules moving as it can be installed in extreme temperatures of 20°F (-6°C) and rising. The ability to install WrapShield SA Self-Adhered horizontally or vertically also helps reduce labor requirements.

With a vapor permeance rating of greater than 50 perms and an air leakage rate of less than 0.0001 L/s m² @ 75 Pa WrapShield SA Self-Adhered prevents air leakage and allows the wall assembly to breathe or 'dry-out' as necessary to adapt to the seasonal changes of the building which helps to ensure good indoor air quality while reducing conditions conducive to mold, mildew, lumber distortion and metal corrosion.

Multiple Substrate Compatibility:

- • Exterior Gypsum
- Most Rigid Insulation
- Precast Concrete
- Concrete Block
- Cast-in-place Concrete
- Plywood
- Pre-painted Steel
- Galvanized Metal
- Aluminum (Painted/Mill)
 Anodized Aluminum
- Rigid Insulation
- Vinyl Window and Door Frames
- Fiberglass Window and Door Frames

Contact VaproShield Technical if you have additional substrate questions.

MATERIAL

WrapShield SA Self-Adhered weather resistive and air barrier sheet membrane is manufactured from a zero VOC, fully self-adhered weather resistive, vapor permeable, air barrier, sheet membrane consisting of multiple layers of spunbonded polypropylene fabric.

SIZE: 59 inches by 164 feet roll (1.5 m by 50 m)

COLOR: Orange

4. Technical Data

Tested to industry standards for Weather Resistive Barriers and approved by ABAA to meet requirements for Air Barriers.

SUSTAINABLE DESIGN BENEFITS

WrapShield SA Self-Adhered Water-Resistive Vapor-Permeable Air Barrier Sheet Membrane is void of all Living Building Challenge red list chemicals and is highly UV resistant: It can remain exposed for up to 180 days prior to installation of cladding system. although VaproShield recommends covering with cladding as soon as possible. WrapShield SA Self-Adhered protects against water intrusion but allows building materials that may have become wet during the construction phase to dry out, reducing the risk of wood rot, deterioration or corrosion.

DECLARE LABEL

The WrapShield SA Self-Adhered system, a primerless self-adhered water-resistive vaporpermeable air barrier sheet membrane system with liquid flashing, has completed the process of obtaining a Declare Label. WrapShield SA Self-Adhered System is the first water resistive barrier WRB/air barrier self-adhered sheet good membrane system to earn a Declare label placing the system at the forefront of the transparency movement.

In order to qualify for a Declare label, a building product must either be free of, or declare any harmful Red List chemicals and meet all Appropriate Sourcing Imperatives as determined by the ILFI. WrapShield SA Self-Adhered required no changes to its formulation or material components.

PRODUCT DATA SHEET

because it was designed to be free of harmful ingredients. For more information on Declare Labels, visit https://living-future.org/wrapshield-sa-self-adhered-system.

RELATED LEED CREDITS

WrapShield SA Self-Adhered membrane contributes 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.

5. Installation

STORAGE AND HANDLING

Store material rolls on end in original packaging. Protect rolls from direct sunlight and inclement weather until ready for use.

PREPARATION

- All surfaces must be dry, sound, clean, and free
 of oil, grease, dirt, excess mortar or other
 contaminants detrimental to the adhesion of the
 water resistive air barrier membrane and
 flashings. Fill voids and gaps in substrate
 greater than ⁷/₈ inch (22.2 mm) in width to
 provide an even surface. Strike masonry joints
 full-flush.
- WrapShield SA Self-Adhered membrane requires a ventilated, unimpeded vertical drainage cavity or rain screen system to be incorporated into all WRB/AB installations.
 VaproBattens™, VaproMat™ or VaproShim SA™ Self-Adhered accomplish this and are available as a corresponding accessory.
- Use VaproShield's two component flashing system, VaproFlashing and VaproLiqui-Flash™ vapor permeable water resistive flashing system for window and door rough openings.
- Self-adhered air barrier transition and flashing membrane shall be VaproFlashing SA™ Self-Adhered, a zero VOC self-adhered waterresistive vapor permeable membrane.

See <u>www.VaproShield.com</u> for complete installation instructions.

BEST PRACTICE OVERVIEW

 All overlaps must be a minimum of 3" (8 cm) on vertical and horizontal seams. Inside and outside vertical corners should be minimum 6" (15 cm) overlaps, should be staggered a minimum of 24" (61 cm) and should not occur directly above or below windows or doors. 09 09 16 Water Resistive Air Barrier Membrane

 Always install WrapShield SA Self-Adhered in a "weatherboard or shingle fashion" with the upper courses lapped on top of the courses below, 3" (8 cm) down from the top edge.

GENERAL

 Go to <u>www.VaproShield.com</u> for complete installation instructions and instructional videos.

LIMITATIONS

- WrapShield SA Self-Adhered should be covered within 180 days of installation.
- Minimum recommended application temperature for self-adhered membrane and flashings to be above 20 degrees F (minus 6.0 degrees C).
- Contamination of WrapShield SA Self-Adhered membrane with building site chemicals which make it more wettable (e.g., surfactants), adversely affects its water resistance and therefore its contribution to the water resistance of the overall wall system.
- WrapShield SA Self-Adhered membrane should not be subjected to asphaltic materials, chemicals, surfactants, or cleaning compounds that could affect the water resistance of the membrane surface; if exposed, replace affected membrane.

6. Availability

VaproShield products are available throughout North America, Central, South America and New Zealand.

7. Warranty

A 20-year product warranty is available.

WRAPSHIELD SA® SELF-ADHERED Testing

Acceptance Criteria for Weather Resistive Barriers and Air Barriers | AC 38 (polymeric-based barrier)

PROPERTY	TEST/STANDARD	RESULT
	TEST/STANDARD	
Roll Length		164' (50 m)
Roll Width		59" (1.5 m)
Nominal Thickness	Calibrated Micrometer	23 mils (0.57 mm)
Basis Weight	Electronic Weigh Scale	7.36 oz/yd² (250 g/m²) without release film
Roll Weight		54 lbs (24 kg) packaged
Application Temperature		Air & surface minimum + 20 °F (-6.67 °C) and rising
Service Temperature		-40 °F to 250 °F (-40 °C to 121 °C)
Water Resistance	AATCC - 127	PASS (22 in. head of water >5 hrs.)
Air Permeance	ASTM E2178	PASS <0.00002 cfm/ft ² @ 1.57 psf (<0.0001 L/s m ² @ 75 PA)
Air Barrier Assembly	ASTM E2357	PASS <0.002 cfm/ft ² @ 1.57 psf (<0.01 L/s m ² @ 75 Pa)
Water Vapor Permeability (perms)	ASTM E96 Method B	50.45 Perms 366 g/m² 24h WVT
Water Vapor Transmission Rate (WVTR)	ASTM E398	52.57 Perms 364.88 g/m² 24h WVT
Peel Adhesion	ASTM D3330	Meets requirement (data varies by substrate)
Breaking Strength/Elongation	ASTM D5034	MD 88 lbf (391 N) CD 83 lbf (369 N)
Flame Spread	ASTM E84	5 – Class A
Smoke Developed Index	ASTM E84	15 – Class A
NFPA 285	Assembly Fire Test	Contact VaproShield Technical Team: 1-866-731-7663 opt. 5

