



**1. Product Name**

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

**2. Manufacturer**

VaproShield, LLC.  
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**3. Product Description**

**BASIC USE AND APPLICATIONS**

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

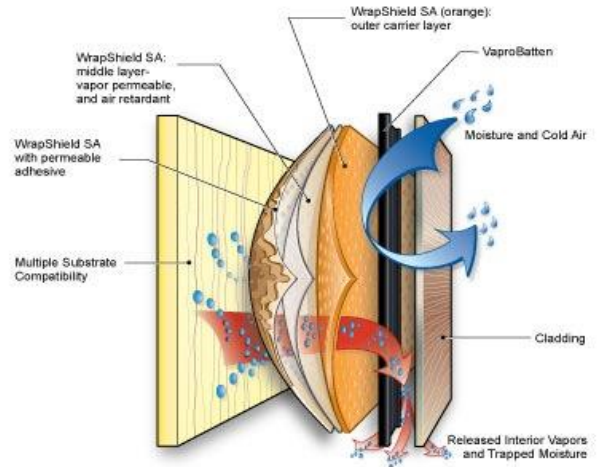
**BENEFITS**

**WrapShield SA** Self-Adhered a fully self-adhered weather resistive and air barrier sheet membrane fully bonds to almost any substrate, 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 50 perms 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 Vinyl
- 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 UV stabilized, spun-bonded polypropylene fabric.

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

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.

**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.

**WRAPSHIELD SA® SELF-ADHERED Testing**

**Acceptance Criteria for Weather Resistive Barriers and Air Barriers**

PROPERTY	TEST/STANDARD	RESULT
Roll Length		164' (50m)
Roll Width		59" (1.5m)
Nominal Thickness	Calibrated Micrometer	22 mils (0.56mm)
Basis Weight	Electronic Weigh Scale	7.58 oz/yd <sup>2</sup> (257 g/m <sup>2</sup> ) - averaged
Roll Weight		54 lbs (24 kg) packaged
Application Temperature		Air & surface minimum + 20°F ( -6.67°C ) and rising
Service Temperature		-40°F to 220°F ( -40°C to 104°C )
Water Resistance	AATCC - 127	PASS (22 in. head of water – 5 hrs.)
Air Permeance	ASTM E 2178	PASS <0.00002 cfm/ft <sup>2</sup> @ 1.57 psf (0.0001 L/s m <sup>2</sup> @ 75 PA)
Air Barrier Assembly	ASTM E 2357 - 05	PASS <0.002 cfm/ft <sup>2</sup> @ 1.57 psf (0.01 L/s m <sup>2</sup> @ 75 PA)
Water Vapor Transmission (WVT)	ASTM E398-13	50.35 Perms 350.40 g/m <sup>2</sup> 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

**5. Installation**

**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 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 VaproShims™ accomplish this and are available as a corresponding accessory.
- Use VaproLiqui-Flash™ vapor permeable water resistive flashing 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 water-resistive vapor permeable membrane.
- See [www.VaproShield.com](http://www.VaproShield.com) for complete installation instructions.

**STORAGE AND HANDLING**

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

**GENERAL**

- See [www.VaproShield.com](http://www.VaproShield.com) 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 and South America.

**7. Warranty**

A 20 year product warranty is available.