



1. Product Name

**RevealShield SA™ Self-Adhered
Water Resistive Vapor Permeable
Air Barrier Sheet Membrane
(RevealShield SA™)**

2. Manufacturer

VaproShield, LLC.
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3. Product Description

BASIC USE AND APPLICATIONS

RevealShield SA is a fully self-adhered water resistive and air barrier sheet membrane used above grade, behind rain screen open joint wall cladding assemblies.

BENEFITS

RevealShield SA is specifically designed for open joint rain screen wall cladding systems, where permanent UV exposure is inherent. With a vapor permeance of over 60 perms and an air leakage rate of less than 0.0001 L/s/m² @ 75 Pa, RevealShield SA™ protects against water intrusion and prevents air leakage, allowing the wall assembly to breathe or 'dry-out', as necessary to meet the conditions of seasonal changes for each climate zone. The combined water and air protection along with breathable membrane attributes help to ensure good indoor air quality by reducing conditions conducive to mold, mildew, lumber distortion and metal corrosion.

RevealShield SA is a single layer sheet membrane that fully bonds to almost any substrate (excluding OSB), does not require the use of primers, emits no VOC's, and does not require special equipment for installation. Cladding open Joints can be up to 2" and up to 40% of the total elevation area.

RevealShield SA keeps construction schedules moving and labor costs down as it can be installed either horizontally or vertically in extreme temperatures of 20° F (-6° C) and rising.

RevealShield SA is a zero VOC fully self-adhered membrane consisting of multiple layers of UV stabilized proprietary material that can remain exposed under open joint cladding systems and is available with a 20 Year Product Warranty when installed per VaproShield installation instructions.

MATERIAL

SIZE: 59 inches by 102 feet roll (1.5 m by 31.1 m)
COLOR: Black

MULTIPLE SUBSTRATE COMPATIBILITY:

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

Contact VaproShield Technical if you have additional substrate questions.

4. Technical Data

Tested in accordance with ICC-ES AC 38 criteria to meet IBC and IRC requirements for Water Resistive Barriers. Approved by ABAA to meet requirements for Air Barriers.

SUSTAINABLE DESIGN BENEFITS

RevealShield SA is highly UV resistant: It can remain exposed for up to 1 YEAR prior to installation of cladding system, although 40% or 2 inch (5.1 cm) open joint exposure is unlimited.

BEST PRACTICES recommend covering with cladding as soon as possible.

RELATED LEED CREDITS

RevealShield SA 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 $\frac{7}{8}$ inch in (22.2 mm) width to provide an even surface. Strike masonry joints full-flush.
- **RevealShield SA** Self-Adhered membrane requires a ventilated, unimpeded vertical drainage cavity or rain screen system to be incorporated into all WRB/AB installations. Black VaproBattens™ or VaproShim SA™ Self-Adhered accomplish this and are available as a corresponding accessory.
- Use VaproShield's two component flashing system, RevealFlashing™ 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 RevealFlashing SA™ Self-Adhered, a zero VOC, UV stable self-adhered water-resistive vapor permeable membrane.

See www.VaproShield.com 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.
- Always install **RevealShield 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 www.VaproShield.com for complete installation instructions and instructional videos.

LIMITATIONS

- **RevealShield SA** should be covered within 1 YEAR prior to installation of cladding system.
- Open joint spacing should not to exceed 2" (5.1 cm) with maximum open area not to exceed 40% of total elevation area of open joint cladding.
- Minimum recommended application temperature for self-adhered membrane and flashings to be above 20 degrees F (minus 6 degrees C).
- Contamination of **RevealShield 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.

- **RevealShield 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 America, South America and New Zealand.

7. Warranty

A 20 Year Product Warranty is available.

REVEALSHIELD SA® SELF-ADHERED- Testing

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

PROPERTY	TEST/STANDARD	RESULT
Roll Length		102 ft. (31.1 m)
Roll Width		59 in. (1.5 m)
Nominal Thickness	Calibrated Micrometer	18.9 mil (0.480 mm)
Basis Weight	Electronic Weigh Scale	11.0 oz/yd ² (365 g/m ²) without release film
Roll Weight		54 lbs (24.5 kg)
Application Temperature		No Limitations
Service Temperature		-40° to 250°F (-40° to 121°C)
Water Resistance	AATCC - 127	PASS (22 in. head of water >5 hrs.)
Air Permeance of Building Materials	ASTM E2178	PASS <0.0000 cfm/ft2 @ 1.57 psf <0.0001 L/s/m2 @ 75Pa
Air Barrier Assembly	ASTM E2357	PASS <0.002 cfm/ft2 @ 1.57 psf <0.01 L/s/m2 @ 75Pa
Water Vapor Permeability (perms)	ASTM E96 Method B	15.1 g/hr•m2 (63.48 Perm) 362 g/ 24 hr•m2
Water Vapor Transmission Rate (WVTR)	ASTM E398	453.45 g/m2•24hr (65.52 Perm)
Breaking Strength/Elongation	ASTM D5034	MD – 119 lbf (529 N) CD – 96 lbf (427 N)
UV Stability	AC38, Section 4.1.2	PASS UV Stable
Flame Spread	ASTM E84	0 - Class A, PASS
Smoke Developed Index	ASTM E84	75 - Class A, PASS
NFPA 285	Assembly Fire Test	Contact VaproShield Technical Team: 1-866-731-7663 opt. 5

