

VAPROSHIELD SYSTEMS APPROACH

VaproShield promotes a systems approach to building envelope design, incorporating Breathable Membranes, Rain Screen Design Components and 3D Window Flashing Elements, resulting in High Performance Building Envelope Systems.

Complete System of Breathable Membranes + Rain Screen Design Components + 3D Window Flashing Elements = High Performance Building Envelope Solutions

WrapShield SA Self-Adhered combines the best properties of a weather resistant vapor permeable membrane and an air barrier in one innovative, affordable self-adhering product.

It **fully bonds** (no mechanical attachment) to **almost any substrate** for air tightness and ease of installation, requiring minimal use of sealants or tapes.

WrapShield SA Self-Adhered air barrier prevents lateral air movement enhancing building thermal performance and with a **rating of 50 perms**, provides the **highest vapor permeability** in a commercial quality, self-adhered, air barrier breather membrane.

WrapShield SA Self-Adhered Unsurpassed in Performance

Drying Capacity

WrapShield SA Self-Adhered is a vapor permeable air barrier and at 50 perms it allows damp sheathing to dry quickly (see test chart) and moisture vapor to escape, ensuring good indoor air quality while reducing incidence of mold, mildew, lumber distortion and metal corrosion.

Adhesive Durability and Cost Effectiveness

- No primer required
- Application over 20°F and rising
- Tough facer laminate resists punctures and tears
- Lightweight and easy to install
- Manufactured rolled goods ensure consistent properties and performance
- Wide service temperature range, easily installed in all climates
- Sustainable up to 180 days of UV and climate exposure
- Tear, rip and puncture resistant during and after construction, reducing labor costs

Warranty

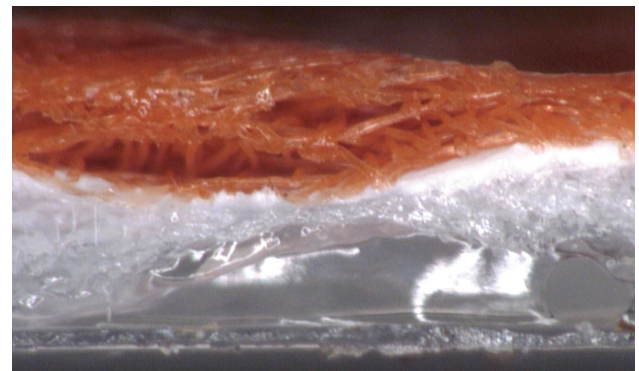
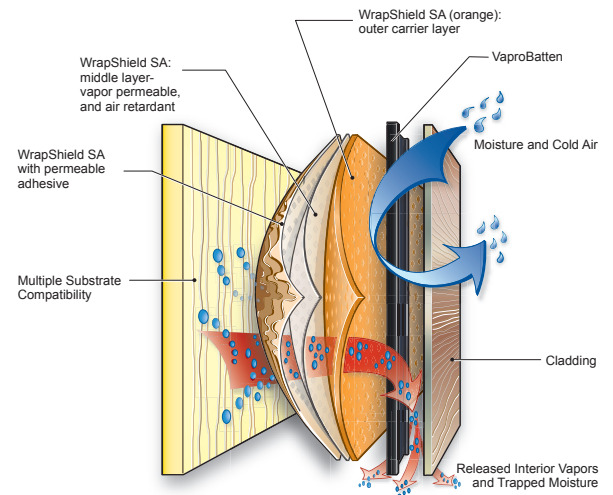
Standard 20 year material warranty

Multiple Substrate Compatibility

- Exterior Gypsum Sheathing
- DensGlass Gold®
- Most rigid insulation
- Pre-painted steel
- OSB
- Precast concrete
- Concrete block
- Plywood
- Aluminum (painted or mill finish)
- Cast-in-place concrete
- Galvanized metal
- Rigid vinyl
- Steel
- Anodized aluminum
- GlasRoc®

Environmental Sustainability

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

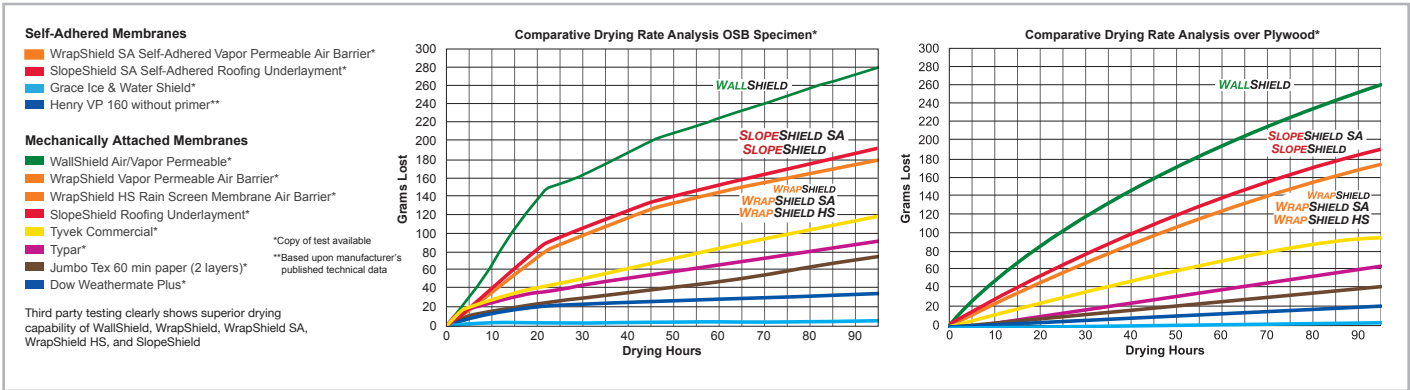


WrapShield SA Self-Adhered is a triple layer polypropylene micro-porous film laminate with a proprietary acrylic vapor permeable adhesive.



Veteran's Administration Main Hospital, North Las Vegas, NV
300,000 Sq. Ft. of WrapShield SA Self-Adhered with Trespa, metal and brick exterior cladding.

WRAPSHIELD SA® SELF-ADHERED Testing
Drying Rate Comparisons



Third party testing clearly shows superior drying capability of WrapShield SA Self-Adhered; the highest vapor permeable self-adhering commercial air barrier membrane in the industry.

WRAPSHIELD SA® SELF-ADHERED Testing

Acceptance Criteria for Weather Resistive Barriers | AC 38 (polymeric-based barriers)

PROPERTY	TEST/STANDARD	RESULT
Roll Length		164' (50m)
Roll Width		59" (1.5m)
Nominal Thickness	Calibrated Deadweight Micrometer	26 mils (0.65mm)
Basis Weight	Electronic Weigh Scale	8.2575 oz./sq.yd.
Roll Weight		The weight is 54 lbs (24 kg)
Application Temperature		Air & surface minimum + 20°F
Service Temperature		- 40°F to 220°F (- 40°C to 93.3°C)
Water Resistance	AATCC - 127	PASS (22 in. head of water – 5 hrs)
Air Permeance	ASTM 2178	0.0000263 cfm/ft ² @ 75 Pa
		0.000134 L/s/m ² @ 75 Pa
Air Barrier	ASTM E 2357.05*	PASS <0.01 cfm/ft ²
Water Vapor Transmission	ASTM E96 – Method B**	50 perms
Peel Adhesion	ASTM D3330	37.6 oz/in
Tensile Strength	ASTM D882	MD 44.8 lbf/in CD 25.1 lbf/in
Wall Assembly Fire Test	NFPA 285	PASS with diverse assemblies***
Flame Spread	ASTM E-84	10 - Class A
Smoke Development Index	ASTM E-84	15 - Class A

*As tested per ASTM E 2357 on the following substrates: DensGlass Gold®, CMU Block

LEED

Wrapshield SA Self-Adhered 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.

WrapShield SA Self-Adhered is tested in accordance with ICC-ES-AC 38 criteria to meet IBC and IRC requirements for Weather Resistive Barriers.

**ASTM E 96 - Method B (wet cup method) typically gives a more realistic result for permeance of highly permeable products than does the Method A (dry cup/desiccant method).

***Contact the VaproShield Technical Team to learn more about NFPA compliance and testing.