

## Protecto Wall VP®

Self-Adhering, Self-Sealing Vapor Permeable Water Resistive Air Barrier

### TECHNICAL DATA

Properties	Test Method	Test Results
Color	-	White with Red Printing – Adhesive is a honey color
Installation Temperature	-	-20°F/-28°C to 125°F/51.6°C*
In-Service Temperature	-	-45°F/-42°C to 300°F/148.9°C
Thickness		27 mils with Adhesive (.7mm)
Breaking Strength (MD/CMD)	ASTM D 5034	67/48 lbs.
Tear Strength (MD/CD)	ASTM D 5733	26/35lbf
Water Vapor Transmission	ASTM E 96	Method A 298 g/m <sup>2</sup> /24 hours
Water Vapor Permeance	ASTM E 96	Method A 43.5 perms
Water Penetration Resistance	AATCC 127	Pass
Air Resistance	ASTM E 2178	L/(s·m <sup>2</sup> ) 0.014 / cfm/ft <sup>2</sup> 0.0028
Air Leakage	ASTM E 2357	Pass
Drainage Efficiency	ASTM E 2273	≥ 98.5%
Flame Spread Index	ASTM E 84	10 / Class A
Smoke Developed Index	ASTM E 84	45 / Class A
Low Temperature Bend	ICC-ES AC308-3.3.4	Pass
90° Peel Adhesion, (lbf/in)	AAMA 711 5.3	ASTM D 3330 – Pass
Accelerated UV Aging (lbf/in)	AAMA 711 5.4	ASTM D 3330 – Pass
Elevated Temperature (lbf/in)	AAMA 711 5.5	ASTM D 3330 – Pass
Thermal Cycling (lbf/in)	AAMA 711 5.6	ASTM D 3330 – Pass
After Water Immersion (lbf/in)	AAMA 711 – 5.8	ASTM D 3330 – Pass
Peeling from Itself	AAMA 711 – 5.9	ASTM D 3330 – Pass
Peel Adhesion	AAMA 711-13	90° Peel Adhesion, (lbf/in.) ≥ 1.5
Nail Sealability	AAMA 711-22	Pass
Visual inspection	CAN/CGSB-51.32-M77	Pass
Width tolerance	CAN/CGSB-51.32-M77	Pass
Pliability	CAN/CGSB-51.32-M77	Pass
Tensile strength	CAN/CGSB-51.32-M77	Pass
UV Exposure	ASTM D 3330	180 Days
NFPA 285 Compliant Assemblies	Comparative ASTM E1354	With Various Insulations in NFPA 285 Assemblies

### PACKAGING

	Full Width Roll	Detail Strip	Patent Pending
Roll Widths:	40 inches / 1.2 m	12 inches / 0.3 m	
Roll Length:	120 feet / 36.58 m	120 feet / 36.58 m	
Area / Roll	400 sq ft / 37.16 sq m	120 sq ft / 11.15 sq m	

### DESCRIPTION

Protecto Wall VP Water Resistive Air Barrier is a primer-free self-adhering, self-sealing, nonwoven, vapor permeable, microporous polyolefin laminate that provides 98.5% drainage efficiency.

### FEATURES

- Proprietary Super Stick synthetic butyl adhesive technology
- 180 day exposure
- Primer-Free
- Can be installed down to -20°F / -28°C
- For use as a Water Resistive Air Barrier
- No Primer needed on most surfaces<sup>1</sup>
- Compatible with and will adhere to most construction surfaces<sup>1</sup>

- No VOC's, HFCC's, nor CFC's
- Can be applied to damp surfaces<sup>2</sup>

## **USES**

Used as a self-adhered, vapor permeable, Water Resistive Air Barrier on exterior sheathing and behind exterior cladding and siding.

## **LIMITATIONS**

Not recommend for application over uncured (wet) sealants or adhesives, even if compatible

Not recommended for use when the Synthetic Butyl Adhesive is applied over or in contact with PVC roofing membranes.

Not recommended for use over granulated surfaces.

Not recommend for installation during rain

Not recommended for use on substrates with standing water or visibly wet surfaces, dirty surfaces, frozen surfaces or surfaces contaminated with foreign substances such as grease, oil or solvents.

Not recommended for application where backside of walls may be exposed to rain or standing water conditions.

Note: Protecto Wall VP can be applied in extreme cold/hot weather; however, Protecto Wrap Company does not recommend applications below 0°F (-17°C) or above 125°F (51.6°C) due to health and safety reasons.

## **SHELF LIFE**

Protecto Wall VP maintains optimum initial adhesion to substrates when used within two years from the date of manufacture.

## **STORAGE**

Protecto Wall VP should be stored in the original, unopened container. Storage area should remain dry and out of direct sunlight. Do not remove materials from original containers until ready for use. Do not double stack pallets.

## **PREPARATION**

All surfaces shall be clean, dry (it is permissible to install Protecto Wall VP over a damp surface, not a wet surface) and free of any foreign materials. The surface shall be free of gaps, sharp edges and protrusions. Any area with missing or damaged sheathing shall be repaired prior to installation of the Protecto Wall VP.

<sup>1</sup> Note: Protecto Wrap Company recommends testing substrates for adhesion prior to full application. See Technical Letter Adhesion to Substrates.

<sup>2</sup> Note: installation over damp surfaces may result in the formation of bubbles/air pockets under the Protecto Wall VP due to moisture drive, the use of a roller will help to remove the bubbles and air pockets.

## **APPLICATION**

Protecto Wall VP is to be installed with the Printed Side out and may be applied horizontally or vertically (or mixed as needed) to substrates.

Always install the Protecto Wall VP in a "weatherboard or shingle fashion" with the upper courses lapped on top of the courses below. All overlaps must be a minimum of 2" (5 cm) on horizontal seams (head lap) and 2" (5 cm) on vertical seams (end laps).

Cut membrane into easily handled lengths and begin installation by peeling back approx. 3" to 6" (8 to 15 cm) of the release film to allow for enough adherence to the substrate to get started. Once the piece is initially positioned, continue with removal of the release film and hand smoothing into place as the process continues. Recommend use of a hand paddle to assist with smoothing the membrane into place. To finish, the membrane must be pressed firmly into place with a hand roller, starting in the center and moving to the outer edges to smooth out any wrinkles, air bubbles and to ensure full contact with the substrate as soon as possible.

Inside and outside vertical corner overlaps should be a minimum of 6" (15 cm) in both directions, staggered a minimum of 24" (61 cm), and should not occur directly above or below windows or doors.

For ease of alignment, the use of a chalk line is helpful during the start of the first course.

End laps or side laps should not fall on a horizontal or vertical seam in the exterior sheathing and should be terminated a min 3" (8 cm) past the seam.

Prior to installation of the exterior façade inspect the membrane and repair any damaged areas

If stucco is used for siding, check your local code, a secondary layer of building paper or paper backed lath should be applied over the Protecto Wall VP prior to the stucco installation.

Refer to [www.protectowrap.com](http://www.protectowrap.com) for the **Protecto Wall VP Installation Instructions** for additional methods and Details around Window & Door Openings, Penetrations and Termination of edges.

#### **CLEAN UP**

Dispose of waste in accordance with local requirements. Control worksite so that boxes and release liner do not present a hazard. Packaging materials and release liner can be recycled.

#### **CAUTION**

Protecto Wall VP has an aggressive adhesive, we recommend removing 3" to 6" (8 to 15 cm) of the release film at a time while beginning the installation to help prevent it from sticking to itself.

PVC type roofing membranes may contain high concentrations of plasticizers that may react with the Super Stick Synthetic Butyl adhesive.

Do not adhere Protecto Wall VP to skin, removal may cause loss of hair and/or bleeding.

Protecto Wrap Company recommends the use of safety glasses and gloves. Protecto Wrap Company recommends the use of appropriate fall protection when working above ground level.

Do not stretch Protecto Wall VP.

#### **Membrane Repairs**

Repairs must be made using the Protecto Wall VP barrier sized to extend 6 in. (150mm) in all directions from the perimeter of the affected area. If repairs are required, carefully cut out affected areas and replace in similar procedure as outlined in the application instructions above. The repair piece must be pressed into place with a hand roller as soon as possible to ensure continuous and intimate contact with the substrate. Apply a bead of 25XL sealant along the top edge and sides of the repair piece. Tool the bead of sealant with a flat blade so the sealant is at least ½" (12 mm) on the patch and ½" (12 mm) on the main field of the membrane, thick enough so the edge of the patch is fully covered by sealant and not visible.

#### **LIMITED WARRANTY**

This product is covered by the Protecto Wrap Standard 10 year Limited Warranty.

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