Premium Building Products That Protect

TECHNICAL DATA SHEET

# 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 | - | -20ºF/-28ºC to 125°F/51.6°C* |
| In-Service Temperature | - | -45ºF/-42ºC 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/m²/24 hours |
| Water Vapor Permeance | ASTM E 96 | Method A 43.5 perms |
| Water Penetration Resistance | AATCC 127 | Pass |
| Air Resistance | ASTM E 2178, CAN/ULC-S741 | L/(s·m2) 0.014 / cfm/ft2 0.0028 |
| Air Leakage | ASTM E 2357, CAN/ULC-742 | Pass, Classification A1 |
| 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 AC38-3.3.4 | 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 |
|---|---|---|
| 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 |

Patent Pending

### 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$^0$F / -28ºC
- For use as a Water Resistive Air Barrier

- No Primer needed on most surfaces[1]
- Compatible with and will adhere to most construction surfaces[1]
- No VOC's, HFCC's, nor CFC's
- Can be applied to damp surfaces[2]

**USES**

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

**LIMITATIONS**

Not recommended 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 recommended 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 0ºF (-17ºC) 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.

[1] Note: Protecto Wrap Company recommends testing substrates for adhesion prior to full application. See Technical Letter-Surface Preparation at www.protectowrap.com.

[2] 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.

At the end of each working day, if the wall has been only partially covered, apply a 1/4" bead of Protecto Sealant 25XL along the exposed edges of the membrane at its temporary terminations. Tool the bead flat, 1/2 on the membrane and 1/2 on the substrate making sure it is pressed well into both surfaces. Do the same to any exposed top edges of the membrane and flashing upon completion of the installation.

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 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**
If repairs are required, carefully cut out the affected areas and cover the area with a patch of the Protecto Wall VP membrane sized to extend a minimum of 6 inches (150mm) in all directions from the perimeter of the affected area. Roll the repair patch into place with a hand roller to ensure continuous contact with the substrate. Apply a bead of 25XL sealant along all sides of the repair patch. 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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