



Premium Building Products  
That Protect

Self-Adhered Air/Vapor Barrier  
Window and Door Flashing  
Thru Wall Flashing

**TECHNICAL DATA**

Properties	Test Method	Test Results
Color		White/Gray
Thickness		40 mil
Tensile Strength	ASTM D412	975 psi
Elongation (adhesive only)	ASTM D412	500%
Puncture resistance	ASTM E154	57.2 lbs
Permeance	ASTM E96	0.01 perms max
Nail Sealability	ASTM D1970	Pass
Cold Temperature Flexibility	ASTM D1970	Pass at -25°F (-32°C)
Installation Temperature		40°F* to 120°F (5°C* to 48°C)
Installation Temperature Cold Weather with primer		10°F to 120°F (-12°C to 48°C)
In-Service Temperature		-45°F to 240°F (-42°C to 116°C)

**PACKAGING**

Roll Width: 4", 6", 9", 12", 18", 24", 36"  
Roll Length: 75'

**DESCRIPTION**

**PW 100/40™** is a cold applied self-adhering membrane composed of a tough cross laminated High Density Polyethylene coated on one side with a layer of asphalt/SBS adhesive.

**FEATURES**

- Proprietary asphalt/SBS adhesive
- 120 day exposure rating
- Fully adhered system
- Seals around properly installed fasteners
- Compatible with and will adhere to most construction surfaces<sup>1</sup>
- Forms a positive air/vapor barrier<sup>2</sup>

**USES**

Used as a full building wrap in envelope applications in cavity wall construction as an air/vapor barrier membrane\*

Used as a complete waterproof membrane below grade, above grade and as window/door flashing on Insulated Concrete Form (ICF)<sup>2</sup>

Used as a complete waterproof self-adhered flashing for window and door installations to create a positive air/vapor barrier in everyday construction. Safe for use on most wood, wood clad, aluminum, fiberglass and vinyl windows and doors

Sealing around skylights, recommend counter flashing to protect BT25XL from UV damage

Sealing joints in exterior sheathing

Sealing penetrations in roof and wall systems

**LIMITATIONS**

Not recommended for use on windows or doors that incorporate a plasticized nailing flange or drip cap, consult window manufacturer to determine nailing flange type.

Not recommended for use over or near solvent based sealants. See Technical Letter Chemical Compatibility.

Not recommend to be applied over uncured (wet) sealants or adhesives, even if compatible

Not recommended for use over or in contact with PVC roof coverings.

Not recommended in high temperature applications to exceed 240°F (116°C).

### **SHELF LIFE**

PW 100/40 maintains optimum initial adhesion to substrates when used within one year from the date of manufacture.

### **STORAGE**

PW 100/40 should be stored in the original, unopened container at ambient temperatures between 40°F to 90°F (5°C to 32°C). 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.

Cold Weather Storage – products should be stored in original containers in a warm dry area between 40°F to 90°F (5°C to 32°C). Product should be kept warm a minimum of 24 hours prior to and just up to installation.

### **PREPARATION**

All surfaces shall be clean, dry and free of any foreign materials. The surface shall be free of gaps, sharp edges and protrusions.

Metal surfaces may need to be solvent wiped and/or abraded to achieve optimum adhesion.

<sup>1</sup> Note: If surface is DensGlass Gold<sup>®</sup>, OSB, Concrete block (CMU), masonry, fiber board sheathing, exterior gypsum, saturated felt type building wrap or cannot be cleaned to a like new surface or the surface is damp or below 45°F (7°C), primer should be used prior to the application of the membrane. Some housewrap materials may require primer, test for adhesion prior to full application.

Protecto Wrap Company recommends field testing substrates for adhesion before full application. If adhesion to substrate is found to be marginal, then a primer shall be used to ensure optimal adhesion. Refer to: Technical Letter Primer Recommendations; Technical Letter Adhesion to Substrates.

When used on ICF, the surface must be clean, dry and free of all dirt, dust and debris prior to application of the membrane. Protecto Wrap Company recommends testing the ICF for adhesion. If adhesion to the ICF substrate is found to be marginal, then only the Universal Water Based Primer shall be used to ensure optimal adhesion.

### **APPLICATION**

For full wall air/vapor barrier applications and for below grade applications on ICF: **PW 100/40** can be installed horizontally or vertically and must form water shedding laps. Side laps should be a minimum of 2", end laps should be a minimum of 4", all membrane terminations should be sealed with a 1" wide troweled bead of JS160-H Mastic or JS160 WB Mastic.

Apply first piece of **PW 100/40** to the rough opening sill; the PW 100/40 should overlap the housewrap or building paper at the sill. Firmly roll into place using a hand roller (J-roller, Laminate roller) to smooth out any wrinkles, air bubbles or creases that would allow water to migrate behind the membrane. Set window into the rough opening and fasten per window manufacturer's instructions. Apply vertical pieces of PW 100/40 over the nailing flange at the sides of window frame and directly onto the exterior sheathing, firmly roll into place using a hand roller to smooth out any wrinkles, air bubbles or creases, apply the final piece of PW 100/40 over the top nail flange and overlap the vertical sides pieces adhering directly to the exterior sheathing, firmly roll into place using a "J" roller or hand roller to smooth out any wrinkles, air bubbles or creases. Apply housewrap or building paper over the PW 100/40 at the sides and head of the window. Use housewrap tape or equivalent to seal the housewrap to the exterior of the PW 100/40.

For ceiling and soffit applications: the substrate must be fully primed and allowed to cure prior to full application. Membrane should be firmly rolled into place using a hand roller to smooth out any wrinkles, air bubbles or creases. Mechanical fasteners should be applied at perimeter of membrane as needed to ensure full contact.

\* **Cold Weather Applications**, this product may be installed down to **10°F to 120°F (-12°C to 48°C)** However; the product must be stored in original containers in a warm dry area between 50°F to 90°F (10°C to 32°C). Product must be kept warm a minimum of 24 hours prior to and just up to installation. To achieve optimum adhesion at the lower temperatures a primer must be used. Protecto Wrap Company

recommends testing substrates for adhesion prior to full application. If adhesion to substrate is found to be marginal, then a primer shall be used to ensure optimal adhesion. Refer to: "Technical Letter Cold Weather Applications".

\* Additional methods and detail drawings can be found at [www.protectowrap.com](http://www.protectowrap.com) or call (800) 759-9727.

#### **CLEAN UP**

Dispose of waste in accordance to local requirements. Control worksite so that boxes and release liner do not present a hazard.

Packaging materials and release liner can be recycled.

#### **CAUTION**

**PW 100/40** should not come into contact with solvent based products, polysulfide's, plasticized PVC roofing materials or high concentrations of resins (pitch).

<sup>3</sup> Note: It is very important in full coverage envelope applications that the **PW 100/40** is tightly sealed into the roofing and below grade waterproofing systems and perimeter flashings to retain the integrity of the vapor barrier throughout the entire structure. In full building envelope applications the dew point of the wall assembly must be engineered to the exterior of the building.

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.

#### **LIMITED WARRANTY**

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

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