

Physical property	Typical value	Test method
Color	Blue	-
Thickness, nominal	19 mils (0.48 mm)	-
Application temperature, min	+20 °F (-7 °C)	-
Service temperature	-40 °F to +180 °F (-40 °C to +82 °C)	-
Water vapor permeance (Blueskin <sup>®</sup> VP100)	33 Perms	ASTM E96, Method A
Average breaking force, dry	55 lbf / 245 N MD 48 lbf / 214 N CD	ASTM D5034
Accelerated aging	Pass	ICC-ES AC38 (25 cycles)
Cycling and elongation	Pass	ICC-ES AC38 (100 cycles at -20 °F (-29 °C))
Flame spread index	5, Class A	ASTM E84
Smoke developed	125, Class A	ASTM E84
Air permeance @ 75Pa	0.004 cfm/ft <sup>2</sup> (0.02 L/s.m. <sup>2</sup> )	ASTM E2178, CAN/ULC-S741-08
Acceptance criteria for water resistive barriers	Pass	ICC-ES AC38
Low temperature flexibility	Pass	ICC-ES AC38/3.3.4
Peel-adhesion to unprimed plywood		
Baseline	62 lbf/ft / 905N/m	ICC-ES AC38
After 7 day water immersion	54 lbf/ft / 786N/m	
After accelerated aging	72 lbf/ft / 1049N/m	
After UV exposure	77 lbf/ft / 1125N/m	
Nail sealability	Pass	AAMA 711, ASTM D1970 modified
Drainability	>95%	ASTM E2273

### Approvals and Certifications

- ICC ESR-2975
- ICC AC38
- CGSB 51.32
- AAMA 711-05
- ASTM E331

### Description

**Blueskin<sup>®</sup> VP100** is a premium, self-adhered vapor permeable, water-resistive barrier, designed for wood-framed residential and multi-family construction. It protects buildings by eliminating air gaps, water and moisture intrusion, and self-seals around nails and fasteners. **Blueskin<sup>®</sup> VP100** combines an engineered film and a patented, permeable adhesive technology, with split-back poly release film.

### Features and benefits

- Self-seals around nails and fasteners for lasting water tightness
- Achieves more than 95% drainage efficiency in accordance with ASTM E2273
- Eliminates uncontrolled air leakage to reduce energy costs
- Improves air quality by helping to reduce mold proliferation
- Easy installation with peel-and-stick system

### Usage

Designed for wood-framed residential and multi-family applications, **Blueskin<sup>®</sup> VP100** creates a water resistive air barrier when applied outside of the wall sheathing and behind the exterior wall cladding.

### Application,

**Surface Prep:** All surfaces to receive **Blueskin<sup>®</sup> VP100** must be dry and clean of oil, dust, frost, bulk water and other contaminants that would limit adhesion of membrane. Acceptable substrates are exterior-grade gypsum sheathing, plywood, OSB, precast or cast-

## Blueskin® VP100 Self-Adhered Water Resistive Air Barrier

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in-place concrete, concrete block, steel, aluminum and galvanized metal. Strike masonry joints full and flush. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured a minimum of 14 days. Curing compounds and release agents used in concrete construction must be resin based without oil or wax.

If appropriate adhesion is not obtained due to conditions beyond the control of the installer, the application of adhesive-primer will be required. Approved adhesive-primers include **Aquatac™ Primer**. In addition, **Blueskin® Spray Prep Primer** can be used with light coats that are allowed to dry fully prior to covering. Availability may vary by region. Coated surfaces not covered by air barrier during the working day must be recoated.

**Apply: Blueskin® VP100** must be installed in a consecutive weatherboard method starting at bottom or base of wall and working up providing minimum of 2" (50mm) side overlaps and 3" (75mm) end overlaps. Position **Blueskin® VP100** for alignment with release paper in place; roll back, peel away split-back film and apply pressure to assure adhesion. **Surface must be rolled after application** with a countertop or J-roller with adequate pressure to ensure adhesion to substrate and laps and to remove fish-mouths and wrinkles. Seal membrane terminations, around penetrations, duct work, electrical and other apparatus extending through the **Blueskin® VP100** with **212 All Purpose Crystal Clear Sealant**. Additionally, seal around the perimeter edge of membrane, and terminations at window and door frames with **Moistop Sealant**. Apply **212 All Purpose Crystal Clear Sealant** or **Moistop Sealant** in a 1/4" (6mm) bead and tool to thickness of approximately 40 mils (1mm) prior to sealant skinning over. Supplemental sealant at fastening components may be needed, where continuous compression cannot be achieved. Please refer to "Fastener Penetrations through Air Barrier Membranes" Tech Talk for additional information on sealing heads of mechanical fasteners and masonry tie fasteners Note: excessive or heavy application of **212 All Purpose Crystal Clear Sealant** may cause superficial wrinkling of **Blueskin® VP100** in some situations.

Flash fenestrations per window and door manufacturers' recommendations, local building code requirements, ASTM E2112, and AAMA guidelines. Use pre-cut rolls of **FortiFlash**, **FortiFlash Butyl FortiFlex Butyl**, or **Blueskin® Butyl Flash** for sill pan flashings per Henry® published window flashing guidelines. **Air-Bloc® LF** liquid-applied flashing can also be used around the entire rough opening.

Refer to **Blueskin® VP100** Installation Guidelines for detailed application information.

**Limitations: Blueskin® VP100** is designed for exposure of up to 150 days, but is not designed for permanent exposure to ultra-violet light and should be covered as soon as practical after application. Excessive moisture in substrate or laps can inhibit adhesion or result in loss of adhesion prior to installation of cladding. Do not expose the backside of the substrate to moisture or rain. Protect exposed back-up walls against wet weather conditions during and after application of membrane, including wall openings and construction activity above completed air barrier installation.

For installations less than 40 °F (4 °C), an approved Henry® primer is required for all substrates. For further details, refer to Henry® Tech-Talk Bulletin "**Blueskin® VP100** Cold Weather Application."

### Product size/packaging

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6" x 100' (15.2 cm x 30.5 m)  
9" x 100' (22.8 cm x 30.5 m)  
12" x 100' (30.5 cm x 30.5 m)  
48" x 100' (122 cm x 30.5 m)

### Storage

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Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 120 °F (49 °C). In cold weather, it is recommended to warm rolls to 50 °F (10 °C) or above prior to application to assure adhesion to substrate.

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