



# Blueskin® VP100

Self-Adhered Water-Resistive Air Barrier Membrane

## Physical Properties

<b>-Color</b>	Blue	<b>-Flame Spread Index</b> ASTM E 84	5, Class A
<b>-Water Vapor Permeance</b>  ASTM E96, Method A WVP	33 Perms	<b>-Smoke Developed</b> ASTM E 84	125, Class A
<b>-Average Dry Breaking Force</b> ASTM D 5034	55 / 245N MD 48 / 214N CD	<b>-Air Permeance</b> ASTM E 2178 Maximum 0.02 l/m <sup>2</sup> @ 75Pa (0.004 cfm/ft <sup>2</sup> @ 1.57pcf)	Pass
<b>-Accelerated Aging</b> ICC-ES AC48 25 cycles	Pass	<b>-Acceptance Criteria for Water-Resistive Barriers</b> ICC – ES AC38	Pass
<b>-Cycling and Elongation</b> ICC-ES AC48 100 cycles at -20°F (-29°C)	Pass	<b>-Low Temp Flexibility</b> ICC – ES AC38/3.3.4	Pass
<b>-Application Temperature</b> See Limitations	40°F (5°C)	<b>-Peel-adhesion to Unprimed Plywood</b> ICC-ES AC48	Pass
<b>-Service Temperature Range</b>	-40°F to +180°F (-40°C to +82°C)	Control baseline	62 lbf/ft – 905N/m
<b>-Thickness</b> TAPPI T-410	Nominal 19 mils	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
		<b>-Water Penetration Resistance around Nails</b> AAMA 711-05, ASTM D1970 mod	Pass

## Compliance Standards

<b>ESR-2975</b>	<b>ICC AC38</b>	<b>CGSB 51.32</b>	<b>AAMA 711-05</b>	<b>ASTM E331</b>
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## Packaging

-Roll Length	100 ft (30.48 m)	-Roll	<b>48 in</b> (1.22 m) Blue HE100GUSA940
		Width/color/sku	<b>12 in</b> (300mm) Blue HE100GUSA987
			<b>9 in</b> (225mm) Blue HE100GUSA984
			<b>6 in</b> (150mm) Blue HE100GUSA995
			<b>4 in</b> (100mm) Blue HE100GUSA994

## Description

**Blueskin® VP100** is a residential and multi-family self-adhered vapor permeable, water-resistive air barrier membrane consisting of an engineered film and a patented, permeable adhesive technology with split-back poly-release film. **Blueskin® VP100** is fully adhered to the wall substrate in a 'weatherboard' method without mechanical attachment. Covered by US patent 6,901,712; Canadian patent 2,413,550.

## Features

- Brings commercial air barrier technology and expertise to residential construction
- Meets and exceeds industry standards for water-resistive barrier
- Sheds water while allowing vapor to pass through allowing walls to drain and substrates to dry
- Creates a continuous plane of air-tightness improving building thermal performance
- Fully adhered to substrates, eliminating water migration
- Easy to apply with common hand tools

## **Uses**

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Designed for residential and wood-framed multi-family applications, **Blueskin® VP100** creates a water-resistive barrier and air barrier when applied outside of the wall sheathing and behind the exterior wall cladding. Used for transitions, rough openings, fenestration and full-wall applications.

## **Storage**

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Store rolls 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 (18°C) or above prior to application to assure best adhesion to substrate.

## **Limitations**

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**Membrane must be rolled after application to ensure adhesion to substrate and laps.** Not designed for permanent exposure, protect installed membrane as soon as possible. Maximum exposure not to exceed 150 days. See Guide Specifications for further limitations. 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 (5°C), an approved Henry primer as listed below in the Surface Preparation section is always required for all substrates. For more information, please review the Henry BlueskinVP® Cold Weather Application Tech-Talk which is available on the Henry website or contact your local Henry representative.

## **Surface Preparation**

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Acceptable substrates are plywood, OSB, wood, exterior-grade gypsum sheathing board such as DensGlass®, precast or cast-in-place concrete, concrete block, steel, aluminum and galvanized metal. All surfaces to receive **Blueskin® VP100** must be dry and clean of oil, dust, frost, bulk water and other contaminants that would be detrimental to adhesion of membrane. Strike masonry joints full-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.

Approved adhesive-primers include **Blueskin® Adhesive**, **Blueskin® LVC Adhesive**, or **Aquatac Primer**. In addition, **Blueskin® Spray Prep Primer** can be used with light coats that are allowed to dry fully prior to covering.

### **Conditions not typically requiring adhesive-primers:**

- Application above 40°F (5°C) to clean & dry wood and sheathing boards such as plywood and OSB. Ensure substrate and membrane temperatures are above 40°F (5°C)

### **Conditions requiring use of adhesive-primers:**

- Metal, DensGlass® products, exterior grade gypsum board, Concrete, CMU and other masonry substrates. Application at or below 40°F (5°C) requires primer for all substrates including OSB and plywood.

Note: if appropriate adhesion is not obtained due to conditions beyond the control of the installer, the adhesion can be aided by continuous application of adhesive-primer to the substrate and laps as per published BlueskinVP® Installation Guidelines. Ensure all primed surfaces are covered in the same day.

## **Application**

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Refer to **Blueskin® VP100** Installation Guidelines for detailed application information available at [www.henry.com](http://www.henry.com) website. **Blueskin® VP100** must be installed in a consecutive weatherboard method starting at bottom or base of wall and working up; providing minimum of 2-in (5cm) side laps and 3-in (7.6cm) end laps. Cut to manageable lengths, position membrane for alignment, remove protective poly-film using split release and firmly apply pressure to ensure adhesion. Eliminate all fishmouths, wrinkles or gaps, roll entire membrane surface (including seams) with a counter top or "J-roller" with adequate pressure to ensure full contact and adhesion. Seal membrane terminations, heads of mechanical fasteners, masonry tie fasteners, around penetrations: duct work, electrical and other apparatus extending through the **Blueskin® VP100** water-resistive air barrier membrane and around the perimeter edge of membrane terminations at window and door frames with a feathered edge of **Henry 925 or 212 BES Sealant**. Insulation clips and brick-ties should be mechanically fastened through the membrane into solid backing and sealed with **Henry 925 or 212 BES Sealant**.

Cover rough openings and transitions with **Blueskin® VP100** per Guide Specification details. Fenestrations (window and doors) must be flashed per window/door manufacturers' recommendations, local building code requirements, ASTM 2112 and AAMA guidelines. Use pre-cut rolls of **Blueskin® WB** or **Butyl Flash** for sill pan flashings or other approved Henry flashing products per Henry published window flashing guidelines.

Varied installation methods such as vertical application of **Blueskin® VP100** and "Method B" flashing installation for integral flanged windows are acceptable as long as the appropriate lap dimensions are maintained and the laps are installed in a sequential overlapping weatherboard method where applicable. Refer to **Blueskin® VP100** Installation Guidelines for detailed instructions.

## **Limited Warranty**

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Many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We, the manufacturer, warrant only that we will replace, at no charge, any product proved to have a material defect in original manufacturing within 12-months of purchase, provided the product has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY:** THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER CONDITIONS OR WARRANTIES EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS, ANY DELAYS CAUSED BY REPLACEMENT, OR OTHERWISE BEYOND PRODUCT REPLACEMENT. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN ALL CONTAINERS OR PACKAGES OR PRODUCT PURCHASED FOR A FULL REFUND (PROVIDED THE CONTAINERS OR PACKAGING IS UNOPENED AND LESS SHIPPING CHARGES IF ANY) WITHIN 30-DAYS OF PURCHASE. RETENTION OF PRODUCT BEYOND 30-DAYS OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY, FROM ANYONE, FOR ANYTHING RELATED TO THE PRODUCT. To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied conditions or warranties is limited to the duration of Henry's express warranty. For further details of Henry's product warranty, see our website at [www.henry.com/warranty](http://www.henry.com/warranty).

**STATEMENT OF RESPONSIBILITY**

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