# Henry.

# TECHNICAL DATA SHEET Blueskin® VP160

Self-Adhered Water Resistive Air Barrier

| Physical Property   | Typical Value   | Test Method                      |
|---|---|----------------------------------|
| Colour  | Blue  | -                                |
| Thickness, nominal  | 0.58 mm (23 mils)                                       | -                                |
| Application Temperature, min  | -7 °C (+20 °F)  | -                                |
| Service Temperature   | -40 °C to +82 °C (-40 °F to +180 °F)                    | -                                |
| Water Vapour Permeance (Blueskin <sup>®</sup> VP160)  | 1658 ng/Pa.m²s (29 Perms)                               | ASTM E96, Method A               |
| Water Vapour Permeance (Blueskin <sup>®</sup> VP160<br>+ primer + DensGlass <sup>®</sup> sheathing) | 1030 ng/Pa.m²·s (18 Perms)                              | ASTM E96, Method A               |
| Tensile Strength, dry   | 41 lbf / 182 N MD<br>29 lbf / 129 N CD                  | ASTM D882                        |
| Average Breaking Force, dry   | 127 lbf / 565 N MD<br>91 lbf / 405 N CD                 | ASTM D5034                       |
| Accelerated Aging   | Pass  | ICC-ES AC48                      |
| Cycling and Elongation  | Pass  | ICC-ES AC48                      |
| Flame Spread Index  | 0, Class A  | ASTM E84                         |
| Smoke Developed   | 105, Class A  | ASTM E84                         |
| Air Permeance @75Pa   | 0.0147 L/s.m. <sup>2</sup> (0.003 cfm/ft <sup>2</sup> ) | ASTM E2178, CAN/ULC-S741-08      |
| Air Leakage   | Pass  | ASTM E2357                       |
| Air Leakage Rate  | Classification A1                                       | CAN/ULC-S742-11                  |
| Water Resistance  | Pass  | AATCC TM127                      |
| Low Temperature Flexibility   | Pass  | ICC-ES AC38/3.3.4                |
| Peel-Adhesion to Unprimed Plywood   | Pass  | ICC-ES AC38, AAMA 711-07         |
| Nail Sealability  | Pass  | AAMA 711-07, ASTM D1970 modified |

# **Approvals and Certifications**

- ICC ESR-2975
- ICC AC188
- CGSB 51.32

- NFPA 285 Compliant
- AAMA 711-07
- ASTM E331

# Description

**Blueskin®** VP160 is a self-adhered vapour permeable, water resistive air barrier consisting of an engineered film surface and a patented, permeable adhesive technology with split-back poly-release film. **Blueskin®** VP160 is fully adhered to the wall substrates in a weatherboard method without mechanical attachment.

# Features

- Meets highest industry standards for commercial air barriers
- Sheds water while allowing vapour to pass through allowing walls to drain and substrates to dry
- Creates a continuous plane of air-tightness helping to improve building thermal performance
- Fully adheres to substrates eliminating water migration

# Usage

Designed for commercial construction applications, **Blueskin® VP160** creates a water resistive air barrier when applied outside of the wall sheathing and behind the exterior wall cladding. Used for transitions, rough openings, fenestrations, and full-wall applications.

Blueskin<sup>®</sup> VP160 complies with NFPA 285 standard fire test method in various wall assemblies. For further details, refer to Henry<sup>®</sup> Tech-Talk Bulletin "NFPA 285 Assemblies."

#### Application

**Surface Prep**: All surfaces to receive **Blueskin® VP160** must be dry and clean of oil, dust, frost, bulk water and other contaminates that would limit adhesion of membrane. Acceptable substrates are exterior-grade gypsum sheathing, plywood, OSB, precast or cast-in-place concrete, concrete block, steel, aluminum and galvanized metal. 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.

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 **Blueskin<sup>®</sup> Adhesive**, **Blueskin<sup>®</sup> LVC Adhesive**, **Aquatac™ Primer**, or **Hi-Tac™ Primer**. In addition, **Blueskin<sup>®</sup> 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<sup>®</sup> VP160 must be installed in a consecutive weatherboard method starting at bottom or base of wall and working up providing minimum of 5 cm (2") overlaps. Position Blueskin<sup>®</sup> VP160 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, heads of mechanical fasteners, masonry tie fasteners, around penetrations, duct work, electrical and other apparatus extending through the Blueskin<sup>®</sup> VP160 around the perimeter edge of membrane, and terminations at window and door frames with Kop-R-Lastic<sup>®</sup> Sealant. Apply Kop-R-Lastic<sup>®</sup> Sealant in a 6mm (1/4") bead and tool to thickness of approximately 1mm (40 mils) prior to sealant skinning over. Note: excessive or heavy application of Kop-R-Lastic<sup>®</sup> Sealant may cause superficial wrinkling of Blueskin<sup>®</sup> VP160 in some situations.

Fenestrations must be flashed per window and door manufacturers' recommendations, local building code requirements, ASTM 2112, and AAMA guidelines. Use pre-cut rolls of **Blueskin® SA**, **Blueskin® TWF** or **Blueskin® Butyl Flash** for sill pan flashings per Henry<sup>®</sup> published window flashing guidelines. **Air-Bloc<sup>®</sup> LF** liquid-applied flashing can also be used around the entire rough opening.

Refer to Blueskin® VP160 Installation Guidelines for detailed application information.

Limitations: Blueskin® VP160 is designed for exposure of up to 180 days, but is not designed for permanent exposure to ultraviolet 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 4 °C (40 °F), an approved Henry<sup>®</sup> primer is required for all substrates. For further details, refer to Henry<sup>®</sup> Tech-Talk Bulletin "**Blueskin<sup>®</sup> VP160** Cold Weather Application."

# Packaging

10 cm x 30.5 m (4" x 100') 15.2 cm x 30.5 m (6" x 100') 22.8 cm x 30.5 m (9" x 100') 30.5 cm x 30.5 m (12" x 100') 122 cm x 30.5 m (48" x 100')

#### Storage

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

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's<sup>®</sup> product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry<sup>®</sup> Product Support at productsupport@henry.com or by calling 800-486-1278.

® Henry, Blueskin, Air-Bloc and Kop-R-Lastic are registered trademarks of Henry Company. Covered by US patent 6,901,712; Canadian patent 2,413,550.

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