

Physical property	Typical value	Test method
Color	White	-
Thickness, nominal	43.5 mils (1.1mm)	ASTM 3767
Resistance to Hydrostatic Head	231 ft. (70.4m)	ASTM 5385
Lateral Migration Resistance	231 ft. (70.4m)	ASTM 5385 Modified
Water Absorption	0.4%	ASTM 570
Elongation	800% @ 43.5 mils	ASTM D412 Modified
Tensile strength	2400 psi (16.5 MPa)	ASTM D412 Modified
Lap Peel Adhesion	6.9lbs/in (1200N/m)	ASTM D1876
Puncture Resistance	225 lbs (1000 N)	ASTM E154/E154M
Peel Adhesion to Concrete	5 lbs/in (875 N/m)	ASTM D903
Low Temperature Flexibility	Unaffected at -20 °F (-29 °C)	ASTM D1970
Water Vapor Permeance	<0.01 Perms	ASTM E96, Method B
Class A Vapor Barrier	Pass	ASTM E1745

## Description

**Henry® Blueskin PreSeal™ 435** is a pre-applied, fully and permanently bonded composite sheet membrane system for waterproof construction. The membrane contains an adhesive and provides for mechanical attachment into wet concrete to form a permanent barrier seal. **Blueskin PreSeal 435** consists of a polypropylene (PP) membrane laminated to a chemically enhanced non-woven geotextile fleece with a dimpled surface. **Blueskin PreSeal 435** is pre-applied prior to rebar installation and concrete placement.

## Features and benefits

- Dual mechanical bond and adhesive bond for improved bond to concrete
- Fully adheres to substrates eliminating water migration
- Composite bond reduces sequencing delays required for chemically bonded systems
- Easy installation with self-adhering laps and splices (no tools or torches required)
- Wider roll width results in fewer seams, reducing risk of water ingress
- Better cold weather flexibility than polyethylene-based membranes
- Barrier to water-vapor and radon gas permeation
- High chemical resistance
- Living Building Challenge Declare “Red List Free” status support sustainable building
- Methane, Radon, Termite and biodeterioration resistant.

## Usage

Designed for waterproofing of below ground structural concrete surfaces under continuous or intermittent hydrostatic pressure, **Blueskin PreSeal 435** provides protection of concrete from water and chemicals, and protection against gas permeation (e.g. radon). **Blueskin PreSeal 435** can be used in underslab applications and is immediately ready for placement of reinforcing steel. **Blueskin PreSeal 435** can be applied to permanent formwork including but not limited to lagging, sheet piling or caissons.

## Application

**Substrate Preparation:** On all surfaces to receive **Blueskin PreSeal 435**, it is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids greater than 0.5 in. (12 mm). Grout around all penetrations such as utility conduits, etc. for stability. The substrate must be dry and clean of oil, dust, frost, bulk water and other contaminants that would limit adhesion of membrane. Substrates can be improved with concrete, plywood, insulation, or other approved materials to provide support to the membrane. Board systems such as timber lagging must be close butted to provide support and not more than 0.5 in. (12 mm) out of alignment. **Henry Drain Board** drainage sheet can be used to bridge voids, and gaps up to 2 in. (50mm) prior to **Blueskin PreSeal 435** membrane installation. Concrete formwork should stay in place a minimum of 3 days prior to removal.

## Blueskin® PreSeal 435 Pre-Applied Waterproofing Membrane

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**Apply:** Blueskin PreSeal 435 rolls are supplied in 3.3 ft. (1.0m) and 6.6ft. (2m) wide with a selvedge on each side to provide self-adhered laps. Blueskin PreSeal 435 must be installed with the smooth polypropylene side facing the potential water source and the dimpled surface facing the concrete pour side or facing the installer.

### Horizontal Applications

Blueskin PreSeal 435 membrane selvedge and tapes are manufactured with removable plastic release liners which must be removed prior to reinforcement and concrete placement. End laps should be staggered to avoid buildup of layers. Position succeeding sheets 2 in.(50mm) along the marked selvedge. Ensure that the underside of the succeeding sheet is clean, dry and free from contamination before overlap. Peel back the plastic release liner from between the overlaps allowing the two overlapped layers to adhere. Once completed, roll firmly with a heavy roller to ensure full bonding of the layers.

### Vertical Applications

Blueskin PreSeal 435 can be applied vertically to permanent formwork or adjoining structures. After reinforcement placement, concrete should be cast directly against the dimpled surface geotextile side. The membrane must be shingle overlapped a minimum of 2 in.(50mm). All laps over cut edges must use Blueskin PreSeal Tape 120V. Vertically placed sheets can be attached to formwork with fasteners or using Blueskin PreSeal Tape 50S. Fasteners should be placed in the selvedge approximately 0.5 in. (12.5mm) from the edge of the membrane. When placing successive sheets, ensure that the underside of each succeeding sheet is clean, dry and free of contamination before attempting to overlap.

Refer to Blueskin PreSeal Installation Guidelines for detailed application information.

**Limitations:** Blueskin PreSeal 435 is designed for maximum exposure of up to 120 days and is expected to be covered with concrete before that time. The membrane should be covered as soon as practical after application in order to minimize potential damage from other construction. For best results, Blueskin PreSeal 435 should be installed in dry conditions. This system must not be used to cover expansion joints. Always protect the waterproofing membrane from possible damage. If membrane becomes damaged, contact the waterproofing installer or Henry before proceeding with concrete placement.

Blueskin PreSeal 435 is easy to clean and can be pressure washed to remove mud. A light broom or leaf blower can be used to remove nuisance debris.

### Product size/packaging

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#### Blueskin® PreSeal 435

3.3 ft. x 65.6 ft. (1.0 m x 20 m), approximately 40 lbs. (18.2kg) per roll

6.6 ft. x 65.6 ft. (2.0 m x 20 m), approximately 80 lbs. (36.4kg) per roll

### Storage

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If stored in original packaging and protected from the elements at temperature between 41 °F (5 °C) and 90 °F (32 °C), the shelf-life is at least 24 months from date of production. Keep in dry conditions, horizontally or vertically and do not stack pallets on top of each other.

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