

# Concrete Vapor Barriers



Through years of research and design, Barrier-Bac developed the only mechanical interface vapor retarder that exceeds ASTM E 1745 Class A on the market today.

Barrier-Bac vapor retarders are manufactured to the highest standards by using three layer co-extruded, cross-laminated virgin polyolefin resins. Our products are independently tested to ensure that our customers get the highest quality vapor retarder every time. Life expectancy 100 years plus.

By developing the ribbed membranes on our vapor retarders, we have created a mechanical interface. When Barrier-Bac membranes are overlapped and sealed, it locks the membrane in place and reduces the chances of shifting. The engineered sealing tape takes the same profile as our ribbed membrane and produces an excellent mechanical and adhesive seal that complies with the ASTM E 1643 specification. This double sealing process greatly reduces the water vapor drive between our membranes over the traditional flat membrane.

Division  
3

<b>VB-250 (11 mil)</b>	<b>VB-350 (16 mil)</b>	<b>Sealing Tape</b>
12.75' x 200' rolls	12.75' x 150' rolls	4' x 100' rolls

### Summary of VB Series Membrane Specifications ASTM E 1745 – 96 Standard Test Methods, per ASTM E 154-93

Test Type ASTM Standard / ASTM Method	VB-350 Test Results	VB-250 Test Results	Class A Requirements	Class B/C Requirements
Baseline water vapor permeance (Perms) ASTM E 96 / Procedure B, Section 7 of ASTM 154	.009 (Perms)	.012 (Perms)	.30 (Perms)	.30 (Perms)
Permeance after wetting, drying and soaking (Perms) ASTM E 154 - 93, Section 8	.009 (Perms)	.013 (Perms)	.30 (Perms)	.30 (Perms)
Tensile strength after soaking (MD & TD average) ASTM E 154 - 93, Section 9	63.0 Lbf / in.	48.84 Lbf / in.	45.0 Lbf / in.	30.0 Lbf / in.
Resistance to puncture (grams) ASTM E 154 - 93, Section 10	2226 grams	2408 grams	2200 grams	1700/475 grams
Resistance to plastic flow & elevated temperature (Perms) ASTM E 154 - 93, Section 11	.025 (Perms)	.019 (Perms)	.30 (Perms)	.30/.30 (Perms)
Effect of low temperature on bending (Perms) ASTM E 154 - 93, Section 12	.011 (Perms)	.015 (Perms)	.30 (Perms)	.30/.30 (Perms)
Resistance to organisms & substrates in contact with soil (Perms) ASTM E 154 - 93, Section 13	.013 (Perms)	.015 (Perms)	.30 (Perms)	.30/.30 (Perms)
Resistance to petroleum and soil poison (Perms) ASTM E 154 - 93, Section 14	.014 (Perms)	.014 (Perms)	.30 (Perms)	.30/.30 (Perms)

**Barrier-Bac VB-250 and VB-350 meet and/or exceed all ASTM E 1745 Class A requirements.**

# Concrete Vapor Barriers

**Uses:** Stego Wrap is used as a below-slab vapor barrier and as a protection course for below grade waterproofing applications.

**Composition:** Stego Wrap Vapor Barrier is a multi-layer plastic extrusion manufactured with only the highest grade of prime, virgin, polyolefin resins.



**Stego® Wrap 15-mil Class A**  
**Stego® Wrap 10-mil Class A**  
**Stego® Wrap 10-mil Class C**

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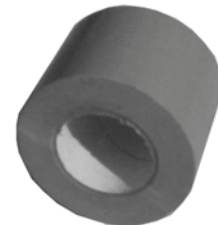
**Physical Properties of Stego Wrap**

Property & Test	15 mil	10 mil	10 mil
Underslab Vapor Retarders, ASTM E 1745	Class A	Class A	Class C
Water Vapor Permeance, ASTM E 96 & ASTM F 1249	0.012 perms (*0.006 WVTR)	0.036 perms	0.037 perms
Tensile Strength, ASTM D 882	76.6 lbf./in.	54.4 lbf./in.	35.2 lbf./in.
Puncture Resistance, ASTM D 1709	2445 grams	2340 grams	1109 grams
Chemical Resistance, ASTM E 154	Unaffected	Unaffected	Unaffected
Life Expectancy, ASTM E 154	Indefinite	Indefinite	Indefinite
Roll Size	14' x 140'	14' x 210'	14' x 210'

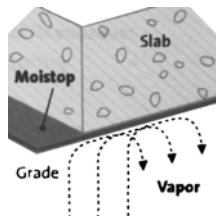
**Stego® Mastic**  
5-Gal. pails.



**Stego® Tape**  
4" x 180' Rolls.  
12/case.



 **Fortifiber Building Systems Group™**  
**MOISTOP**  
 UNDERSLAB VAPOR RETARDER



### Polyethylene Film

Stock Sizes @ CA

4 mil	4', 8', 10', 12', 16', 20'
6 mil	8', 10', 12', 16', 20', 24', 40'
8 mil	20'
10 mil	20'

Standard Rolls of 100 linear ft.

10 mil has the following properties:

**Puncture Resistance**  
ASTM D 1709, 475 grams

**Water Vapor Permeance**  
ASTM E 96, .076 perms

### Moistop® Underslab

Moistop sets the industry standard for Underslab Vapor Retarders. With a water vapor permeance of less than .30 perms, it exceeds ASTM E-1745 requirements for water vapor permeance, providing an extremely effective barrier to moisture vapor transmission through concrete slabs.

### Moistop Ultra® Family

The Moistop Ultra family represents a new generation of concrete underslab products designed to provide incredible durability on the jobsite and lasting protection against moisture. With a water vapor permeance of .02 perms and a tensile strength and puncture resistance that outperforms even thicker membranes, Moistop Ultra 15, Ultra 10 and Ultra 6 exceed ASTM E-1745 standards for Class A, B and C underslab vapor retarders.

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