

# VAPORBLOCK® VB10 & VB15

HIGH PERFORMANCE UNDERSLAB VAPOR BARRIER

## PRODUCT DESCRIPTION

VaporBlock® is a high performance underslab vapor barrier designed to retard moisture migration through concrete slabs and concrete walls to protect your structure from:

- **MOLD:** VaporBlock® reduces moisture condensation within a structure, impeding the growth of molds, mildews, and fungi.
- **MOISTURE:** VaporBlock® protects flooring materials by maintaining moisture levels well below the requirements of ASTM E-1745-11.
- **RADON:** VaporBlock® is used as a component of radon mitigation systems to protect indoor air quality and occupant health. Raven also offers VaporBlock® Plus™, a highly effective gas and moisture barrier.

VaporBlock® is one of the most effective underslab vapor barriers on the market today! Benefits include:

- Ultra-low moisture vapor permeability
- Superior puncture resistance
- High tensile tear strength
- Resistance to decay and degradation

VaporBlock® is manufactured to strict conformance specifications under our ISO 9001 Certified Management System to consistently exceed ASTM standards and project expectations. Raven's accredited lab ensures VaporBlock® meets the highest possible quality standards across multiple industries. VaporBlock® is supported with independent testing. Results are available upon request, as required under ASTM E-1745-11. VaporBlock® is readily available through nation-wide distribution:

- Available in 10 and 15 mil for optimal project flexibility
- Larger roll sizes equal lower installation costs

Raven Industries manufactures VaporBlock® and controls all aspects from start to finish assuring the final product meets our high performance standards. Raven is a publicly-traded company, with over 60 years of stability and service excellence to stand behind our products with a future of innovation and growth.



Vapor Barrier - Commercial

## PRODUCT

## PART #

VAPORBLOCK 10 ..... VB10

VAPORBLOCK 15 ..... VB15

## APPLICATIONS

- Underslab Vapor Retarder/Barrier
- Foundation Wall Vapor Retarder
- Radon Retarder

Note: All instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions accompany each roll of VaporBlock and can also be located on our website.

ASTM E-1643 also provides general installation information for vapor retarders. All VaporBlock series materials can be installed with print or color facing up or down and will provide the same performance.

ASTM E-1745-11, "Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs".

# VAPORBLOCK® VB10 & VB15

HIGH PERFORMANCE UNDERSLAB VAPOR BARRIER

PRO-FORMA DATA SHEET  
FOR VAPORBLOCK® VB15\*\*

PROPERTIES	TEST METHOD	VAPORBLOCK VB10	VAPORBLOCK VB15**	ASTM E 1745-11 Class A, B & C <sup>1</sup>
		IMPERIAL	IMPERIAL	IMPERIAL
APPEARANCE		Blue	Blue	-
THICKNESS, NOMINAL		10 mil	15 mil	-
ROLL SIZE		15 ft x 200 ft	12 ft x 200 ft	-
WEIGHT		49 lbs/MSF	73 lbs/MSF	-
CLASSIFICATION	ASTM E1745-11	CLASS A, B, & C	CLASS A, B, & C	Class A, B, or C
TENSILE STRENGTH AVERAGE MD & TD (NEW MATERIAL)	ASTM E154 Section 9, (D882)	52 lbs/in	60 lbs/in	Class A = 45 lbs/in Class B = 30 lbs/in Class C = 13.6 lbs/in Minimum
(AFTER EXPOSURE)		53 lbs/in	61 lbs/in	
PUNCTURE RESISTANCE	ASTM D1709 Method B	2600 g	3000 g	Class A = 2200 g Class B = 1700 g Class C = 475 g Minimum
PERMEANCE (NEW MATERIAL)	ASTM E154 Section 7 ASTM E96 Procedure B	0.0146 Perms grains/(ft <sup>2</sup> •hr•in Hg)	0.01 Perms grains/(ft <sup>2</sup> •hr•in Hg)	Class A, B, & C  0.1 Perms grains/(ft <sup>2</sup> •hr•in Hg) Maximum
(AFTER CONDITIONING)	ASTM E154 Section 8, E96 Section 11, E96 Section 12, E96 Section 13, E96	0.0153 0.0151 0.0160 0.0181	0.01 0.01 0.01 0.01	
WVTR	ASTM E96 Procedure B	0.0084 grain/hr-ft <sup>2</sup>	0.004 grain/hr-ft <sup>2</sup>	-
MAXIMUM STATIC USE TEMP		180° F	180° F	-
MINIMUM STATIC USE TEMP		-70° F	-70° F	-

<sup>1</sup> Referencing ASTM E1745-11, Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs

\*\*PROFORMA Contents: Data listed for VaporBlock® VB15, under ASTM E154, section 11, 12, and 13, is extrapolated from actual section 8 values and is subject to change at any time as additional test data becomes available.



VaporBlock® is a high performance underslab vapor barrier designed to retard moisture migration through concrete slabs and concrete walls.



Scan QR Code to download current technical data sheets via the Raven website.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage. Limited Warranty available at [www.RavenEFD.com](http://www.RavenEFD.com)

**RAVEN ENGINEERED FILMS**  
P.O. Box 5107 Sioux Falls, SD 57117-5107  
Ph: +1 (605) 335-0174 • TF: +1 (800) 635-3456

[efdsales@ravenind.com](mailto:efdsales@ravenind.com)  
[www.ravenefd.com](http://www.ravenefd.com)



© 2018 RAVEN INDUSTRIES INC. All rights reserved.

092818 EFD 1092