

## Technical Data

## VB-350 (16mil) Vapor Retarder

DIVISION: 072600,033000

### 1.0 PRODUCT NAME

VB-350 (16 mil)  
 Class A Vapor Retarder  
 Exceeds ASTM E 1745 class A, B & C  
 Vapor Retarder Specifications

### 2.0 MANUFACTURER

Inteplast Group  
 9 Peach Tree Hill Road  
 Livingston, NJ 07039  
 Technical Assistance  
 Tel: (877) 535-0555  
 Fax: (800) 709-6002

### 3.0 PRODUCT DESCRIPTION

VB-350 (16 mil) Vapor Retarder is a high performance under slab vapor retarder developed for the construction industry to retard moisture migration through concrete slabs. It may also be used to control radon, methane, sulphates and many other soil contaminants. The ribbed surface has much higher Coefficient of Friction (0.6 COF) than the competitor's smooth surface (around 0.2 COF). It not only reduces the slip and fall risk for workers walking on it, but also keeps wet concrete slabs more stably atop the ribbed surface.

### 3.1 COMPOSITION

VB-350 (16 mil) Vapor Retarder is manufactured to the highest standards with proprietary polyolefin resins. The manufacturing process for the VB-350 (16 mil) Vapor Retarder is made by XF Film, a multi-layer, co-extruded, cross-laminated system. VB-350 (16 mil) vapor retarder is manufactured in 12.75 ft × 150 ft rolls (1913 ft<sup>2</sup>).

VB-350 (16 mil) vapor retarder weighs approximately 137 lbs. per roll.

### 4.0 TECHNICAL DATA

Applicable Standards:

ASTM, American Society for Testing & Materials

- ASTM E 1745 Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.
- ASTM E 154 Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as a Ground cover.
- ASTM D 1709 Standard Test Methods for Impact Resistance of Plastic Films by the Free Falling Dart Method.
- ASTM E 96 Standard Test Method for Water Vapor Transmission of Materials.
- ASTM D 882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting.

Table 1: Physical Properties of VB-350 (16 mil) Vapor Retarder

|                             |  |   |
|-----------------------------|--|---|
| Water Vapor Permeance       | New Material<br>ASTM E154 Sec.7 (Test Method E96)        | 0.007 ( US Perms)                                   |
|                             | After Conditioning<br>ASTM E154 Sec. 8 (Test Method E96) | 0.009 (US Perms)                                    |
|                             | ASTM E154 Sec. 11 (Test Method E96)                      | 0.025 (US Perms)                                    |
|                             | ASTM E154 Sec. 12 (Test Method E96)                      | 0.011 (US Perms)                                    |
|                             | ASTM E154 Sec. 13 (Test Method E96)                      | 0.013 (US Perms)                                    |
| Tensile Strength            | ASTM E 154 (ASTM D 882 )                                 | 83.75 lbf/in  |
| Puncture Resistance         | ASTM E 1709  | 3960 grams  |
| Coefficients of Friction    | ASTM D 1894  | 0.6   |
| Methane Permeance           | ASTM D 1434  | 90.59 cm <sup>3</sup> / (m <sup>2</sup> . Atm. Day) |
| Radon Diffusion Coefficient | K124/02/95   | 2.4 <sup>-11</sup> m <sup>2</sup> /S                |

## Technical Data

## VB-350 (16mil) Vapor Retarder

DIVISION: 072600,033000

### 4.0 TECHNICAL DATA (Continued)

- ASTM E 1643 Standard Practice for installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.
- ASTM E 1894 Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting.
- ASTM D 1434 Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting.

ACI, American Concrete Institute

- ACI 302.1 R-04 Minimum Thickness (10 mil)
- K124/02/95 Method To Test Radon Diffusion Coefficient in Radon-Proof Membrane.

### 5.0 INSTALLATION

VB-350 (16 mil) Vapor Retarder shall be installed over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. Overlap all seams a minimum of 6" and seal with Barrier-Bac White Bond Tape. All penetrations must be sealed with Barrier-Bac membrane and Barrier-Bac White Bond Tape per manufacturer's recommendations. Specific project details and recommendations can be provided by Inteplast Group upon request.

### 6.0 AVAILABILITY & COST

VB-350 (16 mil) Vapor Retarder is available nationally through our network of building supply companies. Please contact our corporate office for a distributor in your area. VB-350 (16 mil) Vapor

Retarder is cost efficient. Pricing can be obtained by contacting your local Barrier-Bac distributors or sales representatives.

### 7.0 WARRANTY

We warrant and guarantee our specifications as published. Published test results are based upon accepted industry practice as well as the test methods called for and listed on our test documents. We believe, to the best of our knowledge, that our published results are accurate and reliable and that they represent our vapor retarder membrane. Inteplast Group cannot control site conditions and improper installation practices. Therefore, no warranty, expressed or implied, is given, including those of merchantability, fitness for a particular purpose or any other matter with respect to the product.

### 8.0 MAINTENANCE

No maintenance is required.

### 9.0 TECHNICAL SERVICES

Technical services for all of our products can be obtained by calling our corporate office.

Corporate Office:  
(877)535-0555

### 10.0 FILING SYSTEMS

Barrier-Bac brochures are available from Barrier-Bac distributors, sales representatives, Inteplast Group and on our website:  
<http://www.BarrierBac.com>



**INTEPLAST GROUP**<sup>®</sup>

OFFICE: 9 Peach Tree Hill Rd., Livingston, NJ 07039  
PLANT: 101 Inteplast Blvd., Lolita, TX 77971

TEL: 877-535-0555

FAX: 800-709-6002

E-MAIL: [info@BarrierBac.com](mailto:info@BarrierBac.com)

WEBSITE: [www.BarrierBac.com](http://www.BarrierBac.com) / [www.inteplast.com](http://www.inteplast.com)