



Technical Data

VBC-350(31 mil) Composite Vapor Retarder

DIVISION: 07260, 03300

1.0 PRODUCT NAME

VBC-350 (31 mil) Composite Vapor Retarder
 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

Uses: Barrier-Bac VBC-350 (31 mil) Composite 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. Barrier-Bac VBC-350 (31 mil) Composite Vapor Retarder provides a mechanical bond with concrete when placed with geotextile facing concrete pour. This bond greatly improves slab protection from moisture migration by maintaining intimate contact with the slab. Typical uses include projects with expansive soil conditions, void formed slabs and high water tables.

3.1 COMPOSITION

Barrier-Bac VBC-350 (31 mil) Composite is manufactured to the highest standards with only high-grade, virgin polyolefin resins. The manufacturing process for the Barrier-Bac VBC-350 (31 mil) Composite is an 16 mil, three layer, co-extruded, cross-laminated system. The membrane is then laminated with a 15 mil non-woven polypropylene geotextile. Barrier-Bac VBC-350 (31 mil) Composite is manufactured in 12 ft × 150 ft rolls (1800 ft²) and weighs approximately 188 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 VBC-350(31 mil) Composite Vapor Retarder

| | | |
|------------------------------|-------------|------------------|
| Thickness | — | 31 mil |
| Peel Adhesion to Concrete | ASTM D 903 | 8 lbs/in |
| Tensile Strength | ASTM D 882 | 136 lbf/in |
| Puncture Resistance | ASTM D 1709 | 5210 grams |
| Vapor Barrier Classification | ASTM D 1745 | Class A |
| Water Vapor Permeance | ASTM E 96 | 0.009 perms (US) |
| Life Expectancy | ASTM E 154 | Indefinite |
| Chemical Resistance | ASTM E 154 | Unaffected |
| Randon Transmission Rate | ASTM D 1434 | 0.062 |



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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.

ACI, American Concrete Institute

- ACI 302.1 R-04 Minimum Thickness (10 mil)

5.0 INSTALLATION

Barrier-Bac VBC-350 (31 mil) Composite shall be installed with non-woven geo-textile facing up 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 inches and seal with Barrier-Bac Seam Tape or heat weld. All penetrations must be sealed with Barrier-Bac membrane and Barrier-Bac Seam Tape per manufacturer's recommendations. Project specific details and recommendations provided by *Inteplast Group* upon request.

6.0 AVAILABILITY & COST

Barrier-Bac VBC-350 (31 mil) Composite is available nationally through our network of building supply companies. Please contact our corporate office for a distributor in your area. Barrier-Bac VBC-350 (31 mil) Composite is cost efficient. Pricing is obtained by contacting your local Barrier-Bac distributor or sales representative.

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 are 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 web site: www.BarrierBac.com



INTEPLAST GROUP

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