



BARRIER-BAC

Superior Vapor Barrier Products

Technical Data

VB-250 (10mil) Vapor Retarder

DIVISION: 072600,033000

Vesion: July 1, 2023

1.0 PRODUCT NAME

VB-250 (10 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 TECHNICAL DATA

PROPERTY	STANDARDS & TESTS	RESULTS
Under Slab Vapor Retarder	ASTM E 1745: Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete	Exceed class A, B and C
Thickness		10 mil
Roll Dimensions	Width (ft.) x Length (ft.): Total Area:	14 ft. x 210 ft. 2940 sq. ft.
Roll Weight		149 lbs
Water Vapor Permeance (ASTM E 1745 - 7.1.1)	ASTM E 154 Section 7, E 96B ---Standard Test Methods For Water Vapor Transmissions of Materials (New Material)	0.0204 (US Perm.)
Permeance After Conditioning ASTM E1745 (Sec.7.1.2 - 7.1.5.)	ASTM E154, Section 8, E96B - Permeance after Wetting, Drying and Soaking	0.0223 (US Perms)
	ASTM E154, Section 11, E96B - Permeance after Heat Conditioning	0.0173 (US Perms)
	ASTM E154, Section 12, E96B - Permeance after Low Temperature Conditioning	0.0220 (US Perms)
	ASTM E154, Section 13, E96B - Permeance after Soil Organism Exposure	0.0169 (US Perms)
Tensile Strength (ASTM E 1745 - 7.2)	ASTM D 882 ---Standard Test Method for Tensile Properties of Thin Plastic	54.2 (lbf / in)
Puncture Resistance (ASTM E 1745 - 7.3)	ASTM D 1709 ---Standard Test Method for Impact Resistance of Plastic	2480 (grams)
Methane Transmission Rate	ASTM D 1434 ---Standard Test Method for Determining Gas Permeability	288.6 (cm ³ / [m ² *Atm*day])
Radon Diffusion Coefficient	ISO / TS 11665-13 (Method A)	7.0 ⁻¹² m ² /S

Note: The above properties were tested by independent labs.

Technical Data

VB-250 (10mil) Vapor Retarder

DIVISION: 072600,033000

4.0 PRODUCT DESCRIPTION

- **VB-250 (10 mil) Vapor Retarder** is manufactured to the highest standards with proprietary polyolefin resins developed for the construction industry and the folding style is easier for construction workers to align and tape together.
- **VB-250 (10 mil) Vapor Retarder** can be used to prevent moisture migrating through concrete slabs, and it may also be used to control radon, methane, sulfates and many other soil contaminants.

5.0 INSTALLATION

VB-250 (10 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 Tape per manufacturer's recommendations. Specific project details and recommendations can be provided by Inteplast Group upon request.

6.0 AVAILABILITY & COST

VB-250 (10 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-250 (10 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:
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10.0 FILING SYSTEMS

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BARRIER-BAC
 Superior Vapor Barrier Products
 Version: July 1, 2023

Technical Data

VB-350 (15mil) Vapor Retarder

DIVISION: 072600,033000

1.0 PRODUCT NAME

VB-350 (15 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 TECHNICAL DATA

PROPERTY	STANDARDS & TESTS	RESULTS
Under Slab Vapor Retarder	ASTM E 1745: Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceed class A, B and C
Thickness		15 mil
Roll Dimensions	Width (ft.) x Length (ft.): Total Area:	14 ft. x 140 ft. 1960 sq. ft.
Roll Weight		141 lbs
Water Vapor Permeance (ASTM E 1745 - 7.1.1)	ASTM E 154 Section 7, E 96B ---Standard Test Methods For Water Vapor Transmission of Materials	0.007 (US Perm.)
Permeance After Conditioning ASTM E1745 (Sec.7.1.2 - 7.1.5.)	ASTM E154, Section 8, E96B - Permeance after Wetting, Drying and Soaking	0.01 (US Perms)
	ASTM E154, Section 11, E96B - Permeance after Heat Conditioning	0.01 (US Perms)
	ASTM E154, Section 12, E96B - Permeance after Low Temperature Conditioning	0.01 (US Perms)
	ASTM E154, Section 13, E96B - Permeance after Soil Organism Exposure	0.01 (US Perms)
Tensile Strength (ASTM E 1745 - 7.2)	ASTM D 882 ---Standard Test Method for Tensile Properties of Thin Plastic Sheeting	82.1 (lbf / in)
Puncture Resistance (ASTM E 1745 - 7.3)	ASTM D 1709 ---Standard Test Method for Impact Resistance of Plastic Films by the Free Falling Dart Methods	3350 (grams)
Methane Transmission Rate	ASTM D 1434 ---Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film And Sheeting	135.8 (cm ³ /[m ² *Atm*day])
Radon Diffusion Coefficient	ISO / TS 11665-13 (Method A)	6.9 ⁻ (-12) m ² /S

Note: The above properties were tested by independent labs.

Technical Data

VB-350 (15mil) Vapor Retarder

DIVISION: 072600,033000

4.0 PRODUCT DESCRIPTION

- **VB-350 (15 mil) Vapor Retarder** is manufactured to the highest standards with proprietary polyolefin resins developed for the construction industry and the folding style is easier for construction workers to align and tape together.
- Our Vapor Retarder can be used to prevent moisture migrating through concrete slabs, and it may also be used to control radon, methane, sulfates and many other soil contaminants.

5.0 INSTALLATION

VB-350 (15 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 (15 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 (15 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

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BARRIER-BAC

Superior Vapor Barrier Products



Technical Data

VB-475 (20mil) Vapor Retarder

DIVISION: 072600,033000

Version: September 1, 2025

1.0 PRODUCT NAME

VB-475 (20 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 TECHNICAL DATA

PROPERTY	STANDARDS & TESTS	RESULTS
Under Slab Vapor Retarder	ASTM E 1745: Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceed class A, B and C
Thickness		20 mil
Roll Dimensions	Width (ft.) x Length (ft.): Total Area:	14 ft. x 105 ft. 1470 sq. ft.
Roll Weight		144 lbs
Water Vapor Permeance (ASTM E 1745 - 7.1.1)	ASTM E 154 Section 7, E 96B ---Standard Test Methods For Water Vapor Transmission of Materials	0.01 (US Perm.)
PermeanceAfterConditioning ASTM E1745 (Sec.7.1.2 - 7.1.5.)	ASTM E1 54, Section 8, E96B - Permeance after Wetting, Drying and Soaking	0.01 (US Perms)
	ASTM E1 54, Section 11, E96B - Permeance after Heat Conditioning	0.01 (US Perms)
	ASTM E1 54, Section 12, E96B - Permeance after Low Temperature Conditioning	0.01 (US Perms)
	ASTM E1 54, Section 13, E96B - Permeance after Soil Organism Exposure	0.01 (US Perms)
Tensile Strength (ASTM E 1745 - 7.2)	ASTM D 882 ---Standard Test Method for Tensile Properties of Thin Plastic Sheetting	93.1 (lbf / in)
Puncture Resistance (ASTM E 1745 - 7.3)	ASTM D 1709 ---Standard Test Method for Impact Resistance of Plastic Films by the Free Falling Dart Methods	4886 (grams)
Methane Transmission Rate	ASTM D 1434 ---Standard Test Method for Determining Gas Permeability Characteristics of Plastic Film And Sheetting	165.3 (cm ³ /[m ² *Atm*day])
Radon Diffusion Coefficient	ISO / TS 11 665-1:3 (Method A)	6.6 x 10 ⁻¹² m ² /S

Note: The above properties were tested by independent labs.

Technical Data

VB-475 (20mil) Vapor Retarder

DIVISION: 072600,033000

4.0 PRODUCT DESCRIPTION

- **VB-475 (20 mil) Vapor Retarder** is manufactured to the highest standards with proprietary polyolefin resins developed for the construction industry and the folding style is easier for construction workers to align and tape together.
- Our Vapor Retarder can be used to prevent moisture migrating through concrete slabs, and it may also be used to control radon, methane, sulfates and many other soil contaminants.

5.0 INSTALLATION

VB-475 (20 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-475 (20 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-475 (20 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

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Technical Data

VBC-350 (31mil) Composite Vapor Retarder

DIVISION: 072600,033000

Version: July 1, 2023

1.0 PRODUCT NAME

VBC-350 (31mil) 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 Rd., Livingston, NJ 07039
Technical Assistance
Tel: (877) 535-0555 Fax: (800) 709-6002

3.0 PRODUCT DESCRIPTION

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. The ribbed side has much higher Coefficient of Friction (0.6) than the competitor's smooth surface (around 0.2 COF). The other side with geotextile fabric provides a mechanical bond with concrete when the fabric side facing concrete pour. This adhesion strength greatly improves slab protection from moisture migration by maintaining intimate contact with the slab. Typical uses include projects with unstable (expansive or alleviated) soil, void formed slabs and high water tables.

3.1 COMPOSITION

VBC-350 (31 mil) Composite is manufactured to the highest standards with proprietary polyolefin resins. The manufacturing process for the Barrier-Bac VBC-350 (31 mil) Composite is a 16 mil, multi-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 6 ft × 150 ft rolls (900 ft²) and weighs approximately 94 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 Sheetting.

Table 1: Physical Properties of VBC-350 (31 mil) Composite Vapor Retarder

Water Vapor Permeance	New Material ASTM E154 Sec.7 (Test Method E96)	0.007 (US Perms)
	After Conditioning 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)
Max Peel Adhesion to Concrete	ASTM E 903	8 lbs / in
Tensile Strength	ASTM D 882	83.75 lbf/in
Puncture Resistance	ASTM D 1709	3960 grams
Coefficients of Friction	ASTM D 1894	0.6
Radon Diffusion Coefficient	K124/02/95	2.4 ⁻¹¹ m ² /S
Methane permeance	ASTM D 1434	90.59 cm ³ /(m ² . Atm .Day)
Elmendorf Tear	ASTM D 1922	9,500 gram
Puncture-Propagation Tear	ASTM D 2582	20,000 gram

Technical Data

VBC-350 (31mil) Composite 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 D 903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
- ASTM D 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.
- ASTM D 1922 Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method.
- ASTM D 2582 Standard Test Method for Puncture-Propagation Tear Resistance of Plastic Film and Thin 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

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 White Bond Tape. All penetrations must be sealed with Barrier-Bac membrane and Barrier-Bac White Bond Tape per manufacturer's recommendations. In case project design specifications require or it is needed to use additional adhesive to secure Barrier-Bac White Bond Tape, we recommend using 3M™ Scotch-Weld™ HoldFast 70 Cylinder Spray Adhesive Clear to apply on the geo-textile surface overlap prior to tape application.

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

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