



## SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: \_\_\_\_\_ Substitution Request Number: \_\_\_\_\_

From: \_\_\_\_\_

To: \_\_\_\_\_ Date: \_\_\_\_\_

A/E Project Number: \_\_\_\_\_

Re: \_\_\_\_\_ Contract For: \_\_\_\_\_

Specification Title: \_\_\_\_\_ Description: \_\_\_\_\_

Section: \_\_\_\_\_ Page: \_\_\_\_\_ Article/Paragraph: \_\_\_\_\_

Proposed Substitution: Inteplast Barrier-Bac VB-475 (20 mil) Vapor Barrier

Manufacturer: Inteplast Group Address: 9 Peach Tree Hill Rd, Livingston, Phone: (877) 535-0555

Trade Name: Barrier-Bac (20 mil) NJ 07039 Model No.: VB-475

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: \_\_\_\_\_

Signed by: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

### A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.  
☐ Substitution rejected - Use specified materials.  
☐ Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_

Date: \_\_\_\_\_

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐

## **Striking the Right Balance for Optimum Performance**

Version: October 1, 2025

Through state-of-the art technology, Barrier-Bac engineers have developed vapor barriers with the right balance between very low permeance and extremely high puncture resistance.

### **Features & Benefits**

- Manufacture 10mil, 15mil, 20 mil, and 31 mil Composite Vapor Barriers
- Exceeds ASTM E 1745 Class A, B and C Specifications

### **VBC-350**



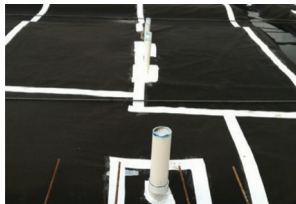
The 31mil VBC-350 Composite Vapor Barrier creates a mechanical bond to 100% of the concrete slab. This ensures integral bonding of the vapor barrier to the concrete slab and eliminates separation of the vapor barrier from the bottom of the concrete.

### **VB-250 VB-350 VB-475**



Our products are manufactured with a proprietary blend of polyolefin resins. This technology produces a product that will maintain a very low permeance & an extremely high puncture resistance throughout the life of the structure. Restricts migration of soil gases such as Radon & Methane.

### **White Bond Tape**



Our 7-mil White Bond Tape is made with a synthetic rubber compound which provides excellent bonding in low temperature applications. With easy-tear edges and no release paper, this polyethylene pressure sensitive tape is easy to use on the job site.

All of our products have been independently tested by a third party.

Optimum Performance = Increased Level of Protection on The Project

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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 Sheeting	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 Sheeting	165.3 (cm <sup>3</sup> /[m <sup>2</sup> *Atm*day])
Radon Diffusion Coefficient	ISO / TS 11665-13 (Method A)	6.6 x 10 <sup>-12</sup> m <sup>2</sup> /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

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®**

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)

## Technical Data

## White Bond Tape

DIVISION: 033000, 072600

Version: Jan 1, 2024

### 1.0 PRODUCT NAME

Barrier-Bac White Bond Tape

### 2.0 SUPPLIER

Inteplast Group  
9 Peach Tree Hill Road Livingston, NJ 07039

Technical Assistance tel:  
(877) 535-0555 fax:  
(800) 709-6002 [www.barrierbac.com](http://www.barrierbac.com)

### 3.0 PRODUCT DESCRIPTION

Barrier-Bac White Bond Tape is a polyethylene pressure sensitive tape which is white in color. This tape is made specifically to be used for seaming overlap joints of Barrier-Bac vapor barrier membrane.

As part of the Barrier-Bac Vapor Barrier systems, Barrier-Bac White Bond Tape is formulated to be installed in ambient temperatures of 30 degrees F to 160 degrees F and provides excellent bonding in both high and low temperatures.

### 3.1 COMPOSITION

Barrier-Bac White Bond Tape is a high tack tape offering a very high adhesive strength to seal vapor barrier seams. The adhesive is made with a synthetic rubber compound which provides excellent bonding in low temperature applications and will maintain a watertight seal in all weather conditions. This product is made in the USA.

### 3.1 SIZE & PACKAGING

Barrier-Bac White Bond Tape is available in standard size of 4' x 180' (96mm x 55M) per roll. Barrier-Bac White Bond Tape net weighs approximately 2 pounds per roll.

12 rolls of Barrier-Bac White Bond Tape are packed in a case.

324 rolls Barrier-Bac White Bond Tape are on a pallet, 27 cases.

### 4.0 TECHNICAL DATA

Physical Properties of Barrier-Bac White Bond Tape

Property	Test Method	Value
Tensile Strength	ASTM D 1000	25 lbs/in
Elongation	ASTM D 3759	85%
Water Vapor Permeance	ASTM D 1249	0.11 US Perms
Peel Adhesion to Steel	PSTC-101	125 oz/in
Application Temp	Degree F	30 F to 160 F
Operating Temp Range	Degree F	20 F to 200 F
Thickness	---	7 mils
Shelf Life	---	One year after shipment

## **Technical Data**

## **White Bond Tape**

DIVISION: 033000, 072600

### **5.0 INSTALLATION**

- All surfaces must be clean and dry. —
- Overlap seam edges of VB-250, VB-350 or VBC-350 vapor barrier, using a minimum 6 inch vapor barrier seam overlap, then apply **Barrier-Bac White Bond Tape** centered over the overlap joint.
- Apply even pressure with a rubber roller to surface of seam tape and insure good initial adhesion.
- In case project design specifications require or it is needed to use additional adhesive to enhance Barrier-Bac White Bond Tape, we recommend using 3M™ Scotch-Weld™ Hold-Fast 70 Cylinder Spray Adhesive Clear to apply on the vapor barrier surface prior to tape application.

### **6.0 AVAILABILITY & COST**

**Barrier-Bac White Bond Tape** is available nationwide through our network of building supply companies. Please contact our corporate office for a distributor in your area. Pricing may be obtained by contacting your local Barrier-Bac Products distributor or sales representative.

### **7.0 WARRANTY**

We warrant and guarantee our specifications as published. Published test results are based upon accepted industry practices 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, reliable and represent our white bond tape. 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 may be obtained by contacting our corporate office

Inteplast Corporate Office: (877) 535-0555

### **10.0 FILING SYSTEMS**

Barrier-Bac brochures are available from Barrier-Bac distributors, sales representatives, Inteplast Group, and our web site:  
[www.BarrierBac.com](http://www.BarrierBac.com)



**INTEPLAST GROUP®**

OFFICE: 9 Peach Tree Hill Rd., Livingston, NJ 07039

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

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



# Certificate of Registration

QUALITY MANAGEMENTSYSTEM- ISO 9001:2015

This is to certify that:

Inteplast Group Corporation  
World-Pak Division  
XF Film Plant  
101 Inteplast Boulevard  
Lolita  
Texas  
77971  
USA

Holds Certificate No:

**FM 35975**

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

Manufacture of Cross-laminated Polyolefin Film, Fluted Polyolefin Boards, and PVC Sheet at Lolita, Texas with Service to production units including Sales, Customer Service, and Purchasing at Livingston, NJ.

For and on behalf of BSI:



Jessica Patel, Senior Vice President, Assurance Americas

Original Registration Date: 1997-01-15

Latest Revision Date: 2024-10-28

Effective Date: 2024-11-02

Expiry Date: 2027-11-01

Page: 1 of 2



...making excellence a habit.™

Certificate No: **FM 35975**

Location	Registered Activities
Inteplast Group Corporation World-Pak Division XF Film Plant 101 Inteplast Boulevard Lolita Texas 77971 USA	Manufacture of Cross-laminated Polyolefin Film.
Inteplast Group Corporation World-Pak Division Profiles Plant 101 Inteplast Blvd. Lolita Texas 77971 USA	Manufacturer of Fluted Polyolefin Boards.
Inteplast Group Corporation World-Pak Division PVC Sheet Plant 101 Inteplast Blvd. Lolita Texas 77971 USA	Manufacture of PVC Sheet.

Original Registration Date: 1997-01-15  
Latest Revision Date: 2024-10-28

Effective Date: 2024-11-02  
Expiry Date: 2027-11-01





**INTEPLAST GROUP**<sup>®</sup>  
*World-Pak*

September 26, 2025

**Certificate of Origin**

To Whom It May Concern:

This is to certify that the following products are manufactured in our ISO 9001:2015 certified plant located at 101 Inteplast Blvd., Lolita TX 77971, United States of America.

- 1) Barrier-Bac VB-250 (10 mil) Class A Vapor Retarder.
- 2) Barrier-Bac VB-350 (15 mil) Class A Vapor Retarder.
- 3) Barrier-Bac VB-475 (20 mil) Class A Vapor Retarder.
- 4) Barrier-Bac VBC-350 (31 mil) Composite Class A Vapor Retarder.
- 5) Barrier-Bac VBC-90 (18 mil) Floor Protection.

Sincerely Yours,

Frank Chen, General Manager  
World-Pak XF  
Inteplast Group

P: 877-535-0555  
F: 800-709-6002