



# VAPOR TAPE (WHITE POLYETHYLENE)

## SPECIFICATION INFORMATION VAPOR RETARDERS DIVISIONS: 033000, 072600

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### 1.0 PRODUCT NAME

**VIPER VAPOR TAPE**  
White Polyethylene Seam Tape.

### 2.0 MANUFACTURER



**Insulation Solutions®**

Insulation Solutions Inc.  
401 Truck Haven Road  
East Peoria, IL 61611

Technical Assistance  
Toll Free: 866-698-6562  
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[www.insulationsolutions.com](http://www.insulationsolutions.com)

### 3.0 PRODUCT DESCRIPTION

#### 3.1 Basic Use:

**VIPER VAPOR TAPE** is a low-residue, aggressive adhesive seam tape designed for seaming, splicing, sealing, patching and hanging plastic type vapor barrier materials. **VIPER VAPOR TAPE** has a low water vapor permeance which helps in maintaining superior moisture/vapor resistance at vapor barrier seams. **VIPER VAPOR TAPE** bonds well to most surfaces over a wide temperature range.

#### 3.2 Composition & Materials:

**VIPER VAPOR TAPE** is a polyethylene film, single coated with a rubber pressure sensitive adhesive. **VIPER VAPOR TAPE** releases easily off of the roll which prevents stretching and curling during and after installation. **VIPER VAPOR TAPE** is designed and manufactured with a serrated edge to facilitate easy roll tear off during installation.

#### 3.3 Size & Packaging:

**VIPER VAPOR TAPE** is available in 4 inch widths by 180 feet in length. Other roll sizes are available upon request. There are 12 rolls per case and 36 cases per pallet.

#### 3.4 Weight:

**VIPER VAPOR TAPE** weighs approximately 2.5 pounds per roll yielding approximately 30 pounds per case.

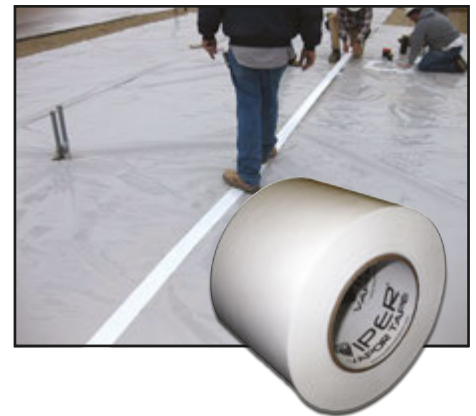
#### 3.5 Benefits:

- Aggressive Adhesion
- Serrated Edge for Ease of Installation
- Very Low Water Vapor Permeance
- Struggle Free Release from Roll
- Suitable for All Plastic Type Vapor Barriers
- 4" Wide Rolls for More Area of Adhesion

### 4.0 TECHNICAL DATA

#### 4.1 Applicable Standards

- American Society for Testing & Materials (ASTM)
- Pressure Sensitive Tape Council (PSTC)
- **ASTM E 1745** Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs
- **ASTM E 1643** Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs
- **ASTM D 1000** Standard Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications
- **PSTC 101** International Standard for Peel Adhesion of Pressure Sensitive Tape
- **ASTM E 96** Standard Test Methods for Water Vapor Transmission of Materials



PROPERTIES	TEST METHOD	VIPER VAPOR TAPE	
<i>Test Procedure - Independent Test Facility</i>	<i>Applicable Standards</i>	<i>IP Units</i>	<i>SI Units</i>
Roll Size		4" x 180'	96 mm x 55 m
Total Thickness (Not including liner)		7.5-mil	0.190 mm
Adhesive Thickness (Rubber)		3.0-mil	0.076 mm
Peel Adhesion: Initial to S.S. (20 min. @ RT)	PSTC 101 Mod.	60 oz/inch	17 N/25 mm
Backing Adhesion: Initial to Backing Substrate (20 min. @ RT)	PSTC 101 Mod.	35 oz/inch	9.6 N/25 mm
Tensile Strength	ASTM D 1000	24 lbs./in.	105 N/25 mm
Elongation	ASTM D 1000	70%	
Water Vapor Permeance	ASTM E 96	<0.001 Perms (U.S.)	<0.0007 Perms (Metric)
Operating Temperature Range		32°F to 160°F	0°C to 70°C

Note: Recommended application temperature to achieve best results is 40°F (4°C) or above.

## 4.2 Environmental Considerations:

When sealing vapor barrier overlaps, **VIPER VAPOR TAPE** helps control soil gas and poisons such as methane, radon, sulfates and petroleum contaminated soil.

## 5.0 INSTALLATION

### 5.1 Sub-Grade Preparation:

Level and tamp or roll granular base as specified by the architectural or structural drawings.

### 5.2 Vapor Barrier Placement:

Unroll vapor barrier with the longest dimension parallel with the direction of the pour. Unfold vapor barrier to full width.

Lap vapor barrier over the footings and seal to the vertical foundation walls with either **VIPER VAPOR TAPE**, **VIPER DOUBLE BOND TAPE**, **VIPER VAPORPATCH** or **VAPORCHECK MASTIC**.

### 5.3 Surface Preparation:

When installing **VIPER VAPOR TAPE**, **VIPER DOUBLE BOND TAPE**, **VIPER VAPORPATCH** or **VAPORCHECK MASTIC**, make sure the area of adhesion is free from dust, dirt and moisture to allow maximum adhesion.

### 5.4 Seams and Penetrations:

Seal around pipes, support columns or any other penetration with **VIPER VAPORPATCH**, **VAPORCHECK MASTIC** or at minimum a combination of the vapor barrier and **VIPER VAPOR TAPE**. Doing so creates a monolithic membrane that isolates the surface of the slab from moisture sources below.



Holes or openings through the vapor barrier should be effectively sealed with **VIPER VAPOR TAPE**, **VIPER VAPORPATCH** or **VAPORCHECK MASTIC** to maintain the integrity of the vapor barrier. Overlap joints a minimum of six inches. Seal overlap together with **VIPER VAPOR TAPE** and/or **VIPER DOUBLE BOND TAPE**.



### 5.5 VIPER VAPORPATCH Installation:

1. **VIPER VAPORPATCH** is available in 12' x 50' rolls. Cut patch to desired length using "dashed" guide line (printed between each pipe diameter template).
2. Cut an "X" through **VIPER VAPORPATCH** to fit the diameter of the pipe (Grid ranges from one to eight inches).
3. Slide **VIPER VAPORPATCH** tightly over pipe penetration.
4. Peel off the release paper (exposing the all weather adhesive) and firmly apply to the vapor barrier and pipe.
5. Seal off any exposed area with **VAPORCHECK MASTIC** or **WHITE POLYETHYLENE TAPE**.

Note: Further information on **VIPER VAPORPATCH** may be obtained from product data sheet or online at [www.insulationsolutions.com](http://www.insulationsolutions.com).

## 6.0 AVAILABILITY & COST

**VIPER VAPOR TAPE** is sold through construction supply houses across the United States and Canada.

**VIPER VAPOR TAPE** current cost information can be obtained by calling our Corporate Office at 866-698-6562.

## 7.0 WARRANTY

INSULATION SOLUTIONS INC.® 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.

## 8.0 MAINTENANCE

**VIPER VAPOR TAPE** requires no maintenance once installed.

## 9.0 TECHNICAL SERVICES

Technical Information and detailed test results can be obtained by calling our Corporate Office at 866-698-6562.

## 10.0 FILING SYSTEMS

Additional Information can be obtained by calling our Corporate Office at 866-698-6562 or online at [www.insulationsolutions.com](http://www.insulationsolutions.com).



*Note: To the best of our knowledge, the specification chart on page one lists typical property values and are intended as guides only, not as specification limits. Insulation Solutions Inc.® 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.*

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