



VAPORPATCH SELF-ADHERING PIPE BOOT

SPECIFICATION INFORMATION VAPOR RETARDERS DIVISIONS: 033000, 072600

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1.0 PRODUCT NAME

VIPER® VAPORPATCH

All Weather Adhesive Pipe Boot/Patch.

2.0 MANUFACTURER



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3.0 PRODUCT DESCRIPTION

3.1 Basic Use:

VIPER® VAPORPATCH is an all weather vapor barrier pipe boot/patch specifically designed for pipe penetrations and patch work. For ease of installation, VIPER® VAPORPATCH contains a pipe diameter template every 12" for use when cutting to fit various pipe diameters. VIPER® VAPORPATCH also works extremely well for seaming, sealing, patching and hanging all plastic type vapor barrier materials. VIPER® VAPORPATCH retains its superior tack in cold, hot, humid and even damp conditions.

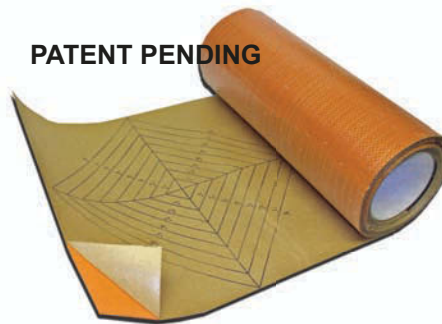
VIPER® VAPORPATCH can be applied in temperatures ranging from -20°F (-29°C) to 180°F (82°C). The bond strength of VIPER® VAPORPATCH increases after adhesion.

3.2 Composition & Materials:

VIPER® VAPORPATCH patent pending technology combines the properties of VIPER® VAPORCHECK® 10-mil and all weather acrylic adhesives. VIPER® VAPORCHECK® 10-mil is a high performance under-slab vapor barrier designed to retard moisture migration through concrete slabs-on-grade.

3.3 Product Dimensions & Weight:

VIPER® VAPORPATCH is available in 11.5" x 50' rolls. Each roll yields approximately (50) 11.5" x 12" boots. VIPER® VAPORPATCH weighs approximately 5 lbs. per roll.



4.0 TECHNICAL DATA

4.1 Applicable Standards:

- American Society for Testing & Materials (ASTM)
- American Concrete Institute (ACI)
- **ASTM E 1745** Standard Specification for Plastic 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 Ground Cover
- **ASTM D 1709** Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method
- **ASTM D 5602** Standard Test Methods for Static Puncture Resistance of Roofing/Under Slab Membrane Specimens
- **ASTM E 96** Standard Test Methods for Water Vapor Transmission of Materials
- **ASTM D 882** Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- **ASTM D 751** Standard Test Method for Coated Fabrics
- **ASTM E 1643** Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs
- **ACI 302.2R-06** Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials

PROPERTIES	TEST METHOD	VIPER® VAPORPATCH	
<i>Test Procedure - Independent Test Facility</i>	<i>Applicable Standards</i>	<i>IP Units</i>	<i>SI Units</i>
Substrate Thickness		10-mil	0.25 mm
Adhesive Thickness		3.0-mil	0.08 mm
Peel Adhesion		55 oz/inch	15.7 N/2.5 cm
Shear Adhesion		>24 hrs. @ 22 psi	>24 hrs. @ 15.2 kPa
Classification	ASTM E 1745	CLASS A, B & C	
Puncture Resistance	ASTM D 1709	15,839 grams (maximum weight sustained)	
Tensile Strength (New Material)	ASTM E 154, Sec. 9	136 lbf/in (MD), 134 lbf/in (TD)	23.8 kN/m (MD), 23.5 kN/m (TD)
Tensile Strength (After Soaking)	ASTM E 154, Sec. 9	140 lbf/in (MD), 133 lbf/in (TD)	24.5 kN/m (MD), 23.3 kN/m (TD)
Operating Temperature Range		-20° F to 180° F	-29° C to 82° C
Water Vapor Permeance	ASTM E 96 / 154 Sec. 7	0.0016 perms (U.S.)	0.0010 perms (Metric)
Water Vapor Transmission Rate	ASTM E 96 / 154 Sec. 7	0.00058 grains/ft ² *hr	0.00040 grams/m ² *hr

4.2 Environmental Considerations:

When sealing around penetrations through the vapor barrier, **VIPER® VAPORPATCH** 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® VAPORPATCH**, **WHITE POLYETHYLENE TAPE**, **VIPER® DOUBLE BOND TAPE** or **VAPORCHECK® MASTIC**.

5.3 Surface Preparation:

When installing **VIPER® VAPORPATCH**, **WHITE POLYETHYLENE TAPE**, **VIPER® DOUBLE BOND TAPE** 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 **WHITE POLYETHYLENE TAPE**. Doing so creates a monolithic membrane that isolates the surface of the slab from moisture sources below.



Holes or openings through vapor barrier should be effectively sealed with **WHITE POLYETHYLENE 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 **WHITE POLYETHYLENE TAPE** and/or **VIPER® DOUBLE BOND TAPE**.



5.5 VIPER® VAPORPATCH Installation:

1. **VIPER® VAPORPATCH** is available in 11.5" 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®** accessories may be obtained from product data sheets or online at www.insulationsolutions.com.

6.0 AVAILABILITY & COST

VIPER® VAPORPATCH is sold through construction supply houses across the United States and Canada.

VIPER® VAPORPATCH 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® VAPORPATCH 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.



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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