

**VAPOR RETARDERS**DIVISION  
033000, 072600**PRODUCT NAME**

Viper• VaporPatch Self-Adhering Pipe Boot/Patch

**MANUFACTURER****ISI BUILDING PRODUCTS**  
401 Truck Haven Road  
East Peoria, IL 61611  
866.698.6562 / www.isibp.com**PRODUCT DESCRIPTION****BASIC USE**

Viper VaporPatch is an all-weather adhesive 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 twelve inches 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 in temperatures ranging from -20°F (-29°C) to 180°F (82°C). The bond strength of Viper VaporPatch increases after adhesion.

**COMPOSITION & MATERIALS**

Viper VaporPatch patent pending technology combines 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.

**SIZE**Standard Size: 11.5" x 50' rolls  
Yields: (50) 11.5" x 12" boots**WEIGHT**

Approximately 5 lbs per roll

**TECHNICAL DATA****APPLICABLE STANDARDS****American Society for Testing & Materials (ASTM)****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**ENVIRONMENTAL CONSIDERATIONS**

When sealing around penetrations through the vapor barrier, Viper VaporPatch can aid in controlling soil gas and poisons such as methane and radon.

**INSTALLATION****SUB-GRADE PREPARATION**

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

**VAPOR BARRIER PLACEMENT**

Unroll Viper Vapor Barrier with the longest dimension parallel with the direction of the pour. Unfold to full width.

Lap vapor barrier over the footings and seal to the vertical foundation walls with either Viper VaporPatch, Viper Double Bond Tape, Viper Vapor Tape or VaporCheck Mastic.

**SURFACE PREPARATION**

When installing Viper VaporPatch, Viper Double Bond Tape, Viper Vapor Tape or VaporCheck Mastic, make sure the area of adhesion is free from dust, dirt and moisture to allow maximum adhesion.

**SEAMS AND PENETRATIONS**

Seal around pipes, support columns or any other penetration with Viper VaporPatch, VaporCheck Mastic or at minimum a combination of the Viper 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 Viper 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.

## VIPER VAPORPATCH INSTALLATION

1. Cut patch to desired length using "dashed" guideline (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 Viper Vapor Tape

These are general installation instructions. Instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by calling the manufacturer at 866.698.6562 or visiting [www.isibp.com](http://www.isibp.com).

## WARRANTY

Warranty information can be obtained by calling the manufacturer at 866.698.6562 or visiting [www.isibp.com](http://www.isibp.com).

## MAINTENANCE

Requires no maintenance once installed.

## TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling the manufacturer at 866.698.6562.

## FILING SYSTEMS

Additional information can be obtained by calling the manufacturer at 866.698.6562 or visiting [www.isibp.com](http://www.isibp.com).

PROPERTIES TEST PROCEDURE (INDEPENDENT TEST FACILITY)	TEST METHOD APPLICABLE STANDARDS	RESULTS IP UNITS
SUBSTRATE THICKNESS	N/A	10-mil
ADHESIVE THICKNESS	N/A	3-mil
PEEL ADHESION	N/A	55 oz/in
SHEAR ADHESION	N/A	>24 hrs @ 22 PSI
CLASSIFICATION	ASTM E 1745	EXCEEDS CLASS A, B, C
PUNCTURE RESISTANCE	ASTM D 1709	15,839 grams (MAXIMUM WEIGHT SUSTAINED)
TENSILE STRENGTH (NEW MATERIAL)	ASTM 154 SEC. 9	136 lbf/in (MD), 134 lbf/in (TD)
TENSILE STRENGTH (AFTER SOAKING)	ASTM 154 SEC. 9	140 lbf/in (MD), 133 lbf/in (TD)
OPERATING TEMPERATURE RANGE	N/A	-20° F to 180° F
WATER VAPOR PERMEANCE	ASTM E 96 / 154 SEC. 7	0.0016 perms
WATER VAPOR TRANSMISSION RATE	ASTM E 96 / 154 SEC. 7	0.00058 grains/(ft <sup>2</sup> *hr)

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AN AFFILIATE OF MEYER ENTERPRISES, LLC  
401 TRUCK HAVEN ROAD, EAST PEORIA, IL 61611  
PHONE: 309.698.0062 / FAX: 309.698.0065