

SPECIFICATION INFORMATION



VIPER® VAPORPATCH PATENT PENDING

Vapor Retarders
Division: 03300
Division: 07260

Revision #1

1.0 Product Name

Viper® VaporPatch
All weather adhesive tape/patch.

2.0 Manufacturer



Insulation Solutions Inc.
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Technical Assistance
Toll Free: 866-698-6562
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3.0 Product Description

3.1 Basic Use:

Viper® VaporPatch is an all weather vapor barrier tape/patch specifically designed for pipe and patch work. 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's 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 Size:

Viper® VaporPatch is available in 12" x 50' rolls.

3.4 Weight:

Viper® VaporPatch weighs approximately 5 lbs. per roll.



4.0 Technical Data

4.1 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 / 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

Note: To the best of our knowledge, these are 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.

PROPERTIES

TEST METHOD

VIPER® VAPORPATCH

Test Results - Independent Test Facility		English	Metric
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	
Tensile Strength (New Material)	ASTM E 154, Sec. 9	136 lbf./in. (MD) 134 lbf./in. (TD)	61.7 kg (MD) 60.8 kg (TD)
Tensile Strength (After Soaking)	ASTM E 154, Sec. 9	140 lbf./in. (MD) 133 lbf./in. (TD)	63.5 kg (MD) 60.3 kg (TD)
Puncture Resistance	ASTM D 1709	15,839 grams	
Maximum Use Temperature		180° F	82° C
Minimum Use Temperature		-20° F	-29° C
Water Vapor Permeance	ASTM E 96 / 154 Sec. 7	.0016 perms .00058 WVTR	.0010 perms CLASS A

4.2 Environmental Considerations:

Viper® VaporPatch is considered a radon and methane gas barrier.

5.0 Installation

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

5.2 Unroll vapor barrier with the longest dimension parallel with the direction of the pour and pull out the folds to the width of the vapor barrier.

5.3 Lap vapor barrier over the footings and seal to the vertical foundation walls with all weather Viper® VaporPatch. Seal around pipes, support columns or any other penetration with Viper® VaporPatch or at minimum a combination of vapor barrier material and all weather Viper® VaporTape creating a monolithic membrane between the surface of the slab and moisture sources below and at the slab perimeter.

5.4 Holes or openings through vapor barrier should be effectively sealed with all weather Viper® VaporTape, Viper® VaporPatch and/or mastic to maintain the integrity of the vapor barrier. Overlap joints a minimum of six inches. Seal overlap together with all weather Viper® VaporTape.



5.5 Viper® VaporPatch Installation

1. Viper® VaporPatch is available in 12" x 50' rolls. Cut patch to desired length.
2. Cut an "X" in the top side of Viper® VaporPatch to fit the diameter of the pipe.
3. Score adhesive back around "X" so patch can be applied over pipe penetration without resistance.
4. Peel off the Viper® VaporPatch adhesive backing, making sure the backing for the scored area is intact.
5. Slide patch over pipe penetration and firmly apply to vapor barrier material.
6. Peel off backing of triangular cut pattern and firmly apply to pipe.
7. Seal off any exposed area with Viper® VaporTape.

5.6 When installing Viper® VaporTape and or Viper® VaporPatch, make sure the area of adhesion is free from dust, dirt and moisture to allow maximum adhesion of the tape.

These are very general installation instructions. Instructions on architectural or structural drawings should be reviewed and followed as well. Detailed installation instructions can be obtained through manufacturer (ASTM E 1643 also provides valuable installation information).

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 sales office at 866-698-6562.

7.0 Warranty

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.

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 is available from the manufacturer.