

SPECIFICATION INFORMATION



VIPER® VAPOR TAPE

Vapor Retarders
Division: 03300
Division: 07260

1.0 Product Name

Viper® VaporTape
All weather adhesive seam tape.

2.0 Manufacturer



Insulation Solutions®

Insulation Solutions Inc.
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East Peoria, IL 61611

Technical Assistance
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3.0 Product Description

3.1 Basic Use:

Viper® VaporTape is an all weather vapor barrier tape designed for seaming, splicing, sealing, patching and hanging plastic type vapor barrier materials. Viper® VaporTape retains its superior tack in cold, hot, humid and even damp conditions. Viper® VaporTape can be applied in temperatures ranging from -20°F (-29°C) to 180°F (82°C). The bond strength of Viper® VaporTape increases after adhesion.

3.2 Composition & Materials:

Viper® VaporTape's patent pending technology combines the properties of Viper® VaporCheck 6.5-mil and all weather acrylic adhesives. Viper® VaporCheck 6.5-mil is a high performance under-slab vapor barrier designed to retard moisture migration through concrete slabs-on-grade.

3.3 Size:

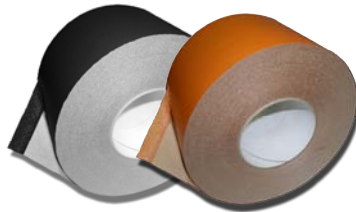
Viper® VaporTape is available in 4" x 200' rolls. Viper® VaporTape ships in 12 rolls per case.

3.4 Color:

Viper® VaporTape is available in both orange and black. The black tape allows the seams to be easily reviewed during inspection.

3.5 Weight:

Viper® VaporTape weighs approximately 5 lbs. per roll (60 lbs/case).



4.0 Technical Data

4.1 Applicable Standards

- **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® VAPORTAPE	
		English	Metric
<i>Test Results - Independent Test Facility</i>			
Substrate Thickness		6.5-mil	0.16 mm
Adhesive Thickness		2.0-mil	0.05 mm
Peel Adhesion		40 oz/in.	11.4 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	69.0 lbf./in (MD) 67.7 lbf./in (TD)	31.3 kg (MD) 30.7 kg (TD)
Tensile Strength (After Soaking)	ASTM E 154, Sec. 9	68.6 lbf./in (MD) 73.4 lbf./in (TD)	31.1 kg (MD) 33.3 kg (TD)
Puncture Resistance	ASTM D 1709	8,825 grams	
Maximum Use Temperature		180° F	82° C
Minimum Use Temperature		-20° F	-29° C
Water Vapor Permeance	ASTM E 96 / 154 Sec. 7	.0095 perms .0035 WVTR	.0063 perms CLASS A

4.2 Environmental Considerations:

Viper® VaporTape 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, Viper® VaporTape and or Viper® Double Bond Tape. Seal vapor barrier 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 or Viper® Double Bond Tape 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® VaporPatch 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 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 guide line printed between each pipe diameter grid.
2. Cut an "X" through Viper® VaporPatch to fit the diameter of the pipe. The pipe grid ranges from 1" to 8".
3. Slide Viper® VaporPatch tightly over pipe penetration.
4. Peel off the backing, exposing the all weather adhesive, and firmly apply to vapor barrier material and pipe.
5. Seal off any exposed area with Viper® VaporTape.

- 5.6 When installing Viper® VaporTape, Viper® VaporPatch and Viper® Double Bond Tape 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® VaporTape is sold through construction supply houses across the United States and Canada.

Viper® VaporTape 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® VaporTape 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.