TDS

VERSION 20.0



VAPOR RETARDERS

DIVISION
033000, 072600

PRODUCT NAME

Viper• Venom EVOH Tape

MANUFACTURER

ISI BUILDING PRODUCTS
401 Truck Haven Road
East Peoria, IL 61611
866.698.6562 / www.isibp.com

PRODUCT DESCRIPTION

BASIC USE

Viper Venom EVOH Tape is a high-performance multi-layer soil gas barrier film featuring an aggressive synthetic rubber adhesive formulated for seaming, sealing, splicing, patching, and hanging of plastic-type vapor barrier materials, specifically Viper Venom Barrier. It forms a continuous seal across plastic vapor barrier systems, protecting structures by preventing moisture intrusion and harmful soil gases like radon and methane.

COMPOSITION & MATERIALS

Viper Venom EVOH Tape is multi-layer plastic film with EVOH core married with a synthetic rubber pressure sensitive adhesive. Viper Venom EVOH Tape releases easily off of the roll, which prevents stretching and curling during and after installation. Viper Venom EVOH Tape is designed and manufactured with a serrated edge to facilitate easy roll tear off during installation.

SIZE

Standard Sizes: 3.78" x 180', 12 rolls per case

WEIGHT

Approximately 2.5 lbs per roll, 30 lbs per case

BENEFITS

- Serrated edge facilitates easy tear by hand
- No release liner for ease of installation and reduction of job site waste
- Specifically designed for sealing, seaming, splicing and patching Viper Venom Barrier

TECHNICAL DATA

APPLICABLE STANDARDS

American Society for Testing & Materials (ASTM)

PSTC 133 International Standard for Thickness (Caliper) of Pressure Sensitive Tape

PSTC 101 International Standard for Peel Adhesion of Pressure Sensitive Tape

ASTM F 1249 Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor

ASTM D 3985 Standard Test Method for Oxygen Gas Transmission Rate Through Plastic Film and Sheeting Using Coulometric Sensor

ASTM D 882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting

INSTALLATION

SEAMING

Ensure Viper Venom Barrier is overlapped a minimum of 12 inches and seal the entirety of the seam with Viper Venom EVOH Tape. Apply adequate pressure to ensure maximum and continuous adhesion. All areas of adhesion should be clean, dry and free of dust, dirt and debris. For added protection, double-lock seams using Viper Double Bond Tape between overlapping layers, followed by capping the top with Viper Venom EVOH Tape.

PENETRATIONS

Install Viper Venom Barrier tightly around the penetration base and seal all voids with Viper Venom EVOH Tape and/or Viper Venom Epoxy (See Viper Venom Barrier TDS, installation instructions, and detail drawings).

PATCHING PIPE PENETRATIONS

- For pipe penetrations with large void spaces around the base, fabricate a remnant piece of Viper Venom Barrier to extend a minimum of 6 inches on all sides of the penetration voids.
- Center fabricated patch over pipe and cut an "X" slightly smaller than the inside pipe diameter. Ensure patch fits tight around pipe penetration.
- Slide patch over pipe penetration and tightly secure in place at the penetration base.
- Apply Viper Venom EVOH Tape around all edges of the patch to secure it completely to the Viper Venom Barrier field layer.
- Seal any remaining voids around pipe penetration base with Viper Venom EVOH Tape and/or Viper Venom Epoxy (See Viper Venom Barrier TDS, installation instructions, and detail drawings).

*For best results, apply Viper Venom EVOH Tape when temperatures are 40°F (4°C) or higher, and ensure it is covered by concrete within 7 days.

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.

WARRANTY

Warranty information can be obtained by calling the manufacturer at 866.698.6562 or visiting www.isibp.com.

MAINTENANCE & STORAGE

Maintenance: Repair or replace any areas showing wear or inadequate adhesion

Storage and Handling: Materials should be stored 70°F (21°C) with 50% relative humidity. All areas of adhesion should be clean, dry and free of dust dirt and debris.

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.

PROPERTIES **TEST PROCEDURE (INDEPENDENT TEST FACILITY)**	TEST METHOD **APPLICABLE STANDARDS**	RESULTS **IP UNITS**
DIMENSIONS	N/A	3.78" x 180' (96mm x 54.86m)
COLOR	N/A	BLACK
TOTAL THICKNESS	PSTC - 133	11-mil
ADHESIVE THICKNESS	PSTC - 133	4-mil
BACKING THICKNESS	PSTC - 133	7-mil
PEEL ADHESION	PSTC - 101	90 oz/in
ADHESION TO STEEL	PSTC - 101	150 oz/in
WATER VAPOR PERMEANCE	ASTM F1249	0.042 perms*
OXYGEN TRANSMISSION RATE (OTR)	ASTM D3985	0.091 cc/(100in^2*day)
TENSILE STRENGTH	ASTM D882	4,300 PSI (MD) / 4,250 PSI (TD)
ELONGATION	ASTM D882	650% (MD) / 660% (TD)
OPERATING TEMPERATURE RANGE	N/A	32° F to 160° F

**gr/(ft^2*hr*in-Hg)*

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

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