



Vapor Sentinel™ 10 MIL VAPOR RETARDER

FEATURES AND BENEFITS

- Low vapor retarder permeance
- Class 1 Vapor Retarder
- Strength to resist punctures and tears
- Zero VOCs
- Lightweight roll for ease of installation
- Easily maneuverable within crawl spaces
- No odor
- Made in the United States

DESCRIPTION

USES: Vapor Sentinel 10-Mil Vapor Retarder is used for sub-slab installations, to protect indoor structures from soil gas transmissions, as well as moisture vapor. The product can also be used to encapsulate crawl space floors and walls. It exceeds building code requirements for a Class 1 vapor retarder in new or existing crawl space encapsulation projects.

COMPOSITION: Made with the highest grade of prime, virgin, polyolefin resins. Vapor Sentinel 10-Mil Vapor Retarder is an efficient and effective multi-layer plastic extrusion.

MANUFACTURER

Vapor Products Group
11650 N. Lantern Road, Suite 126
Fishers, IN 46038
(888) 355-1522



TECHNICAL DATA

TABLE 1: PHYSICAL PROPERTIES OF VAPOR SENTINEL 10-MIL VAPOR RETARDER

PROPERTY	TEST	RESULTS
Radon Diffusion Coefficient	K124/02/95	<8.0 x 10 ⁻¹² m ² /second
Under Slab Vapor Retarders	ASTM E1745 - Standard Specification for Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs	Exceeds Class A, B & C
Puncture Resistance	ASTM D1709 - Test Method for Impact Resistance of Plastic Film by Free-Falling Dart Method	>2,800 grams
Water Vapor Permeance	ASTM F1249 - Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	<0.03 perms
Flame Spread (ASTM E1745 Section 7.4.1)	ASTM E154 Section 16, based on ASTM E84-09b	Class A
Tensile Strength	ASTM D882 - Test Method for Tensile Properties of Thin Plastic Sheeting	>45 lbf/in
Thickness	ACI 302.1R-04 - Minimum Thickness (10 mils)	10 mil
Roll Weight		58 lb
Roll Dimensions		width x length or area: 12' x 100' or 1,200 ft ²
Roll Color		Orange

Note: perm unit = grains/(ft²*hr*in-Hg)



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INSTALLATION

SUB-SLAB: Vapor Sentinel™ 10-Mil Vapor Retarder is unrolled over an aggregate, sand, or tamped base. All seams overlap a minimum of 6 inches. Vapor Sentinel™ Seam Tape is then used on top of all seams. Using a combination of Vapor Sentinel™ Retarder and tape, all penetrations must be sealed as well.

CRAWL SPACE: Unroll Vapor Sentinel 10-Mil Vapor Retarder over entire crawl space floor area. Overlap seams a minimum of six inches and seal with Vapor Sentinel Seam Tape. Some codes require a different amount of overlap. All penetrations and columns should be sealed using Vapor Sentinel™ Seam Tape.

Extend Vapor Sentinel 10-Mil Vapor Retarder up the foundation wall. Using Vapor Sentinel system tape, seal to wall. Consult local building codes prior to installation and to determine the length to cut barrier.

For additional information, please contact us.

MAINTENANCE

For crawlspace application, periodically check to ensure seams are secure and damage is repaired using Vapor Sentinel tape.

TECHNICAL SERVICES

Technical advice, custom CAD drawings, and additional information can be obtained by contacting an authorized Vapor Sentinel™ distributor.

AVAILABILITY & COST

Vapor Sentinel 10-Mil Vapor Retarder is available directly through Vapor Products Group or our exclusive distributors. Contact your local Vapor Sentinel distributor for cost information.

WARRANTY

To the best ability, Vapor Products Group regards specifications and recommendations as accurate and reliable. However project site conditions are not within Vapor Product Groups control and does not guarantee results from the use of the information provided. Limited warranty that the product is free from defects in material and workmanship and is consistent with the technical specifications provided



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