

## PRODUCT DATA SHEET

# Vapor Retarder PE 10

Vapor Retarder PE 10 is a polyethylene vapor retarder/air barrier

### PRODUCT DESCRIPTION

Vapor Retarder PE 10 is a 10 mil (0.25 mm) thick polyethylene vapor retarder/air barrier for use within Sarnafil® and Sikaplan® insulated roofing and waterproofing systems. Vapor Retarder PE 10 can also be used as a separation sheet between new Sarnafil waterproofing systems and existing waterproofing materials.

### USES

- Vapor retarder/air barrier within Sarnafil and Sikaplan insulated roofing systems
- Vapor retarder/air barrier within Sarnafil waterproofing systems
- Separation sheet between the new waterproofing system and existing waterproofing materials

### AREAS OF APPLICATION

- Direct application to steel, concrete, gypsum decks, approved gypsum boards, approved insulation boards and plywood
- Over existing waterproofing materials

### CHARACTERISTICS / ADVANTAGES

Large sheets to minimize seams

### APPROVALS / STANDARDS

- FM Global
- Meets 2018 IECC Air Barrier requirements, Materials (Section C402.5.1.2.1)

## PRODUCT INFORMATION

<b>Chemical Base</b>	Low density polyethylene
<b>Packaging</b>	20 ft (6.9 m) x 100 ft (30.5 m) folded panel rolled onto a 5 ft (1.5 m) wide core 132 lbs (59.9 kg) per roll 24 rolls per pallet
<b>Shelf Life</b>	N/A
<b>Storage Conditions</b>	Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture.
<b>Overall Thickness</b>	10 mil (0.25 mm)

## TECHNICAL INFORMATION

<b>Impact Strength</b>	1.87 lbs (850 g)	(ASTM D-1709)
<b>Tensile Strength</b>	<b>Machine Direction</b> 3470 psi (23.9 MPa)	<b>Cross Machine Direction</b> 3300 psi (22.8 MPa) (ASTM D-882)
<b>Elongation at Break</b>	<b>Machine Direction</b> 1000 %	<b>Cross Machine Direction</b> 1060 % (ASTM D-882)
<b>Water Vapor Transmission</b>	0.019 perms (1.07 ng/(Pa·s·m <sup>2</sup> ))	(ASTM E-96)
<b>Permeability to air</b>	<0.000008 L/(Pa·m <sup>2</sup> ·s)	(ASTM E-2178)
<b>Air flow rate</b>	<0.00004 cfm/ft <sup>2</sup> (<0.0002 L/(s·m <sup>2</sup> ))	(ASTM E-2178)

## APPLICATION INSTRUCTIONS

### APPLICATION

Vapor Retarder PE 10 is loose laid over a suitable substrates. Overlap all edges a minimum of 4" (10.2 cm) and seal with Sika's Multi-Purpose Tape. Extend Vapor Retarder PE 10 to the perimeter and deck penetrations and seal with Sika's Multi-Purpose Tape to provide continuity of the air/vapor envelope. Seal Vapor Retarder PE 10 with Sika's Multi-Purpose Tape on the vertical surface at penetrations.

### MAINTENANCE

Standard maintenance of Sarnafil or Sikaplan systems should include regular inspections of flashings, drains, and termination sealants at least twice a year and after each storm.

### AVAILABILITY/WARRANTY

#### AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

### WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

### BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

### OTHER RESTRICTIONS

See Legal Disclaimer.

### ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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### Product Data Sheet

Vapor Retarder PE 10  
October 2020, Version 03.01  
02094505100000033

VaporRetarderPE10-en-US-(10-2020)-3-1.pdf

