

Lexsuco® and Permamate® Vapor Retarder Systems

Information Sheet



*Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™*

Description

PERMATE VAPOR RETARDER SYSTEM

- **Permamate Vapor Retarder** is an asphalt impregnated kraft paper with fiberglass strand reinforced edges. Available in 32" x 405' (10 square) rolls, and 96" x 405' (30 square) rolls.
- **Permamate Adhesive** is a black, rubber-base solvent type adhesive used to secure Permamate Vapor Retarder. Available in 5 gallon pails and 50 gallon drums.

LEXSUCO VAPOR RETARDER SYSTEM

- **Lexsuco Vapor Retarder** is a specially compounded, flexible, black 4 mil vinyl sheet available in 32" x 405' (10 square) rolls.
- **Lexsuco R907-T adhesive** is used to secure the vapor retarder to the roof deck, to secure roof insulation to the vapor retarder, or to secure insulation to the roof deck. It is a cold applied, black rubber based adhesive with a chlorinated solvent for fire retardancy. Available in 5 gallon pails and 50 gallon drums.

Specification Benefits

- Protects insulation and roofing membrane from moisture migration from within the building.
- Consider use when the average mean temperature is less than 40°F and when the relative humidity inside the building is more than 45°
- Both systems have a permeance of 0.5 perms or less based on ASTM-E-96, Procedure A.
- Permamate and R907-T adhesives can be used with all systems except extruded or expanded (EPS) polystyrene.
- Systems meet Factory Mutual requirements for Class I Insulated Steel Deck Construction.

The Lexsuco system has an FM Class I Fire Resistance classification, and is listed by Underwriters Laboratory as a component in roof deck construction as well as in many fire resistant classifications for roof and ceiling constructions.

Installation

- Carefully read the installation instructions, and safety precautions on either the Permamate Adhesive, or R907-T Adhesive label.
- Maintain adhesives at 45°F during application. In cold weather store at room temperature before using. On the roof, temperature can be maintained by use of hot box storage units or band heaters applied to the pails or drums.

LEXSUCO SYSTEM

Mechanical Applicator

- Pour R907-T adhesive in the top tray of the applicator. Leave lower hopper empty.
- The applicator coats the underside of the vapor retarder with adhesive at a rate of .4 gallon per square, lays, brushes, and secures the vapor barrier on the roof deck with a 2" side lap. Side laps should be centered on the top of the flutes of the steel deck.
- End laps should be 6".

Alternate Method

- Spread R907-T adhesive on the top of the flutes of the steel deck using a roller or adhesive spreader.
- Apply the Lexsuco Vapor retarder on top of the R907-T.
- **Broom out the vapor retarder to insure no air bubbles are trapped under the vapor retarder.**



Note:

- **The Lexsuco Vapor Retarder has a natural tendency to react to the solvent in R907-T. Some curling will be noted along the edges of the Lexsuco Vapor Retarder as it bonds with the R907-T. As the bond cures the sheet will gradually relax, and this will not affect performance.**
- **On wood, lightweight concrete, and precast concrete, secure the Lexsuco vapor retarder to the deck with ribbons of R907-T adhesive.**

Application Guidelines

Based on extensive testing on performance of R907T adhesive, the following guidelines are recommended to deal with the inherent variables in jobsite temperatures, application equipment and workmanship to assure the best results:

- Adhere to the usage guidelines for adhesive coverage of .4 to .7 gallons per 100 sq. ft. - 5% + 10%.

- **Product Information**
- **Technical Support**
- **Customer Service**

BMCA Insulation Products Inc.
270 South Main Street
Wadsworth, OH 44281
1-800-321-2551
1-330-335-2501 (in Ohio)
1-330-336-8913 (FAX)

- Control the nominal adhesive ribbon width to approximately 1/2" wide for .4 gallons/square, and 3/4" wide for .7 gallons/square.
- Assure adhesive coverage is a continuous film under all vapor retarder and a continuous ribbon under insulation boards.
- Spot check ribbon width and thickness approximately 1/2" wide by .080 high, and 3/4" wide and .100 high.

PERMATE SYSTEM

Mechanical Applicator

- Pour Permte adhesive in the top tray of the applicator only. Leave lower hopper empty. The applicator will apply adhesive to the back side of the Permte Vapor retarder and apply it to the deck. Side laps are 2"; end laps 6".

- Lay roof insulation in ribbons of hot asphalt applied 6" on center over the Permte vapor retarder. Apply asphalt at the rate of 12 to 15 pounds per square.

Alternate Method

- Apply Permte adhesive at the rate of .25 to .40 gallons per square to the flutes of the steel deck using a roller or adhesive spreader.
- Apply the Permte Vapor retarder on top of the Permte Adhesive.
- **Broom the Permte Vapor barrier on top of the adhesive to assure there are no voids or air bubbles trapped under the sheet.**

Note:

On wood, lightweight concrete, and precast concrete, secure the Permte Vapor Retarder to the deck with ribbons of Permte Adhesive.

LIMITED WARRANTY

Manufacturer warrants that, at the time of delivery, the product contained herein shall conform to Manufacturer's specifications therefor. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Recommendations made by Manufacturer are believed to be reliable, but Manufacturer makes no warranty of results to be obtained. BUYER'S SOLE AND EXCLUSIVE REMEDY, regardless of the theory on which a claim may be based, including, without limitation, negligence, contract, breach of warranty, strict product liability or misrepresentation, IS THE REPLACEMENT OF THIS PRODUCT. In NO event shall Manufacturer be liable for INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT or PUNITIVE DAMAGES.