

## TRM Isolation Joint

Termite Barrier Membrane

### MANUFACTURER

Polyguard Products, Inc.  
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### PRODUCT DESCRIPTION

#### Basic Uses

TRM Isolation Joint is a "peel and stick" termite barrier composite used for sealing isolation joints (cold joints) before pour of a new slab which butts against an interior slab.

TRM Isolation Joint is a non-structural barrier which, when properly constructed as part of the building envelope, acts as a barrier to termites entering the structure through cold joints.

### PRODUCT FEATURES

- Non-structural barrier.
- Acts as a barrier to termites entering the structure through cold joints.
- Consists of a laminated elastomeric membrane which has a TRM Barrier adhesive on both sides
- Roll height is 2-inches (0.102 cm)

### COMPOSITION & MATERIALS

TRM Isolation Joint consists of a laminated elastomeric membrane which has a TRM Sealant adhesive on both sides. The exposed adhesive faces of TRM Isolation Joint are covered by a disposable treated release sheet, which can be peeled away to expose the adhesive face. Roll width is 2-inches and length is 48-inches.

Embedded within the TRM Isolation Joint is a 4-inch wide stainless-steel screen, with aperture opening of 0.018".

### REFERENCES

There are several ways in which LEED credits might be earned by incorporating TRM Barrier System components into the structure.

Increasingly, LEED has incorporated Integrated Pest Management (IPM) into standards.

LEED calls for IPM protocols to "*minimize pest problems and exposure to pesticides*".

A key IPM element is "*Non-chemical pest preventative measures.....designed into the structure...*". TRM Barriers are non-chemical pest preventative measures.

LEED rating systems for homes incorporate (SSC5) "*Non-toxic pest control*". Two components found in the TRM Barrier System are mentioned; they are steel mesh and sand barriers. Both are used as termite barriers.

TRM Sealant / membranes are not mentioned, as they are only now entering the field for sustainable construction alternatives.

The incorporation of TRM Sealant / membranes into the building envelope should be a strong candidate for Innovation credit.

Finally, if the project site is former agriculture land with residual pesticide contamination, TRM Barriers may qualify under LEED IAQ Credit 5 - Indoor Chemical and Pollutant Source Control (below grade toxin barrier) or SS3 - Brownfield redevelopment.

### TECHNICAL DATA

See physical properties table.

### INSTALLATION

**Surface Preparation:** Apply TRM Isolation Joint only in fair weather when temperatures are above 30°F (-1°C) and rising.

Prior to installation of forms, remove sharp protrusions from concrete. Cut TRM Isolation Joint to proper length. Proper length is the full width of the slab to be poured, plus 6-inches to extend beyond the concrete forms.

**Priming:** Prime the vertical face of the concrete with Polyguard 650 LT Liquid Adhesive or California Sealant according to manufacturer's instructions. Extend the primer to the full width of the slab to be poured plus 3-inches on either side of where the side of the slab will be. Allow to cure until tacky.

**System Application:** If dowels have been installed in the existing slab, cut slits in the TRM Isolation Joint to accommodate the dowels and seal between holes and dowels with Detail Sealant PW™. Note: dowels can be installed after the TRM Isolation Joint; holes may be drilled through the barrier, and then sealed.

Peel away one side of the split release liner and adhere the adhesive face of the TRM Isolation Joint to the vertical concrete. The top edge of the barrier should be 1/2-inch below the top edge of the existing slab.

Peel away the release liner facing the concrete pour. Then fold out the stainless-steel screen 90° to a horizontal direction.

Forms may now be installed, and the slab poured. During the pour care should be taken to make sure that the stainless-steel screen remains in a horizontal position, so the concrete will encapsulate the screen.

Note that it will be necessary, upon completion of landscaping, for a Polyguard approved pest management professional to install a 4" x 5" deep wedge-shaped trench and fill it with TRM Particle Barrier. This is required to provide full perimeter protection against termites.

**Inspections & Repairs:** Visually inspect TRM Isolation Joint for tears, punctures, pinholes, air blisters and "fish mouths" where water or insects could gain entry. Make repairs by removing all damaged barrier so that only well bonded barrier remains. Care should be taken to obtain good adhesion between barrier used for repairs and originally applied barrier.

### LIMITATIONS

When properly installed, TRM System products will physically block termites from entering the structure at the

protected area but will not block termites from entering at other points on the structure. Installing more TRM components blocks more termite entry points but does not guarantee protection in areas the TRM products are not applied.

Polyguard's TRM System has been extensively tested, both in the laboratory and in long term field trials at multiple sites, against *Reticulitermes flavipes* and *Coptotermes formosanus* subterranean termites, which can be said to be the most voracious insects in the United States measured in terms of property damage.

There are numerous other termite species worldwide, not known to be present in the United States, which are equally or more voracious than the U.S. species which were tested. A limited amount of testing outside of the United States has been done or is in progress. Contact Polyguard for up-to-date information about non-domestic testing.

Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations covering use of the product, including waste disposal.

### STORAGE

Barrier and accessories should be unloaded and stored carefully. Cartons and containers must be protected from weather, sparks, flames, excessive heat, cold and lack of ventilation. DO NOT stack barrier material higher than 5'

vertically, nor double stack pallets. Cartons should be stored on pallets and covered to prevent water damage. For best results, the barrier should be stored 50-75°F prior to application barrier.

### SAFETY

SDS documents for all Polyguard products can be obtained at our website [www.polyguard.com](http://www.polyguard.com). Call Polyguard Products, Inc. at (214) 515-5000 with questions.

### WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided.

### TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.  
P.O. Box 755, Ennis, TX 75120-0755  
Sales: (615) 217-6061 • Tech Support: (214) 515-5000  
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PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR	-	Black
LONG TERM SEALANT TESTING AGAINST TERMITE PENETRATION 4 field sites over 5 years vs controls	ASTM D 1758 – 06	100% effective after 5 years
ELONGATION OF BARRIER SEALANT – % STRETCH BEFORE FAILURE	ASTM D 412	> 500%
PERMEANCE TO MOISTURE AND WATER VAPOR	ASTM E 96-B	0.05 Perms
WATER ABSORPTION	ASTM D 570	0.1%
PEEL ADHESION	ASTM D 1000	8.0 lb/width
LOW TEMPERATURE FLEXIBILITY	ASTM D 1970 180° bend over 1" mandrel at -15°F (-9.4°C)	No cracking or delamination
BARRIER PUNCTURE RESISTANCE	ASTM E 154 (Blunt Instrument)	150 lb
APERTURE SIZE OF ENCAPSULATED STAINLESS-STEEL SCREEN	ASTM D 1000	0.018"

PACKAGING	PART NUMBER	UNIT SIZE
TRM ISOLATION JOINT	TERMISOJT 2" X 48"	2" x 48"
<b>TRM ISOLATION JOINT Accessories:</b>		
TRM PARTICLE BARRIER	TERMPART50TX	50 lb.
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5-gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 – 1 gal pails/ctn
CALIFORNIA SEALANT	CALSEAL5	5-gallon pail
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn

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