

TERM[®] Isolation Joint Barrier

EPA Establishment No. 89537-TX-1A

DESCRIPTION

TERM Isolation Joint Barrier 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.

ADVANTAGES

TERM Isolation Joint Barrier 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.

DESCRIPTION OF COMPONENTS

TERM Isolation Joint Barrier consists of a laminated elastomeric membrane which has a TERM Sealant Barrier adhesive on both sides. Total thickness of the TERM Isolation Joint Barrier is a nominal 0.5” (12.7 cm). The exposed adhesive faces of TERM Isolation Joint Barrier are covered by a disposable treated release sheet, which can be peeled away to expose the adhesive face. Roll width is 2” (.102 cm). Length is 48’ (1.219 m).

Embedded within the TERM Isolation Joint Barrier is a 4” wide stainless-steel screen, with aperture opening of 0.018” (0.465 mm).

Polyguard 650 LT Liquid Adhesive is a fast drying, high tack rubber-based adhesive used on horizontal and vertical surfaces at temperatures above 30°F (-1°C).

REFERENCES

There are several ways in which LEED credits might be earned by incorporating TERM 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 “Nonchemical pest preventative measures.....designed into the structure...”. TERM Barriers are nonchemical pest preventative measures.

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

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

The incorporation of TERM Sealant Barrier / 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, TERM Barriers may qualify under LEED IAQ Credit 5 - Indoor Chemical and Pollutant Source Control (below grade toxin barrier) or SS3 - Brownfield redevelopment.

INSTALLATION

Safety

All Polyguard products must be handled in a safe manner. Some products (some mastics or primers) contain solvents, and these deserve special attention to safety since their vapors are both

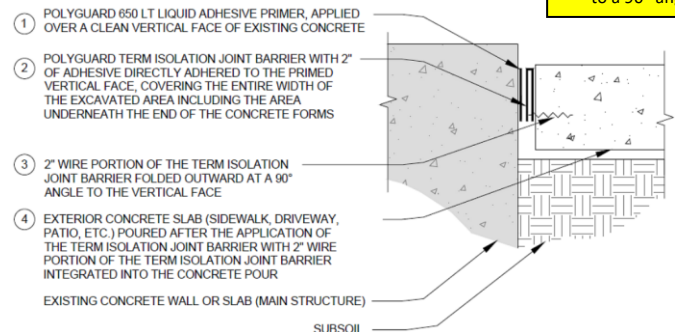
Product Data Sheet



TERM[™] Isolation Joint Barrier installed on a Waco, TX residence. The barrier is adhered to the side of the house slab. Prior to driveway pour, release liner is removed and 0.018” Micromesh screen is folded out to horizontal. The result is a termite barrier embedded in the concrete.

Peel release liner away

Fold out Micromesh to a 90° angle



INSTALLATION

Safety

All Polyguard products must be handled in a safe manner. Some products (some mastics or primers) contain solvents, and these deserve special attention to safety since their vapors are both flammable and harmful if inhaled. Read both the product label and the Material Safety Data Sheet (MSDS) before use. MSDS sheets can be obtained at our website www.polyguardproducts.com. Call Polyguard at 214-515-5000 if you have any questions.

The 650 LT Liquid Adhesive is an industrial coating and would be flammable and harmful if inhaled. Read both the product label and the Material Safety Data Sheet (MSDS) before use. MSDS sheets can be harmful or fatal if swallowed. It is marked as red label because of low flash point.

Prohibit flames, sparks, welding and smoking during application.

Refer to product label for handling, usage, and storage precautions.

Solvents could be irritating to the eyes, flush with water and contact physician.

Avoid prolonged contact with skin and breathing of vapor or spray mist from liquid adhesive. In confined areas, use adequate forced ventilation, fresh air masks, explosion-proof equipment and clean

clothing.

Preparatory Work

Apply *TERM Barrier* only in fair weather when temperatures are above 30°F (-1°C) and rising.

Application of Isolation Joint Barrier:

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

1. Prime the vertical face of the concrete with *Polyguard 650 LT Liquid Adhesive*. Extend the primer to the full width of the slab to be poured plus 3" on either side of where the side of the slab will be. Allow to cure until tacky.
2. If dowels have been installed in the existing slab, cut slits in the *TERM Isolation Joint Barrier* to accommodate the dowels and seal between holes and dowels with *Polyguard 650 Mastix* or *Polyguard Detail Sealant*. Note that dowels can be installed after the *TERM Isolation Joint Barrier*; holes may be drilled through the barrier, and then sealed.
3. Peel away one side of the split release liner and adhere the adhesive face of the *TERM Isolation Joint Barrier* to the vertical concrete. The top edge of the barrier should be ½" below the top edge of the existing slab.
4. Peel away the release liner facing the concrete pour. Then fold out the stainless-steel screen 90° to a horizontal direction.
5. 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.
6. 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 *TERM Particle Barrier*. This is required to provide full perimeter protection against termites.

Inspection and Repairs

Visually inspect *TERM Isolation Joint Barrier* 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.

Material 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' (1.5m) 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.

LIMITATIONS

Polyguard's TERM™ Barrier 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.

The information in this data sheet is designed to be helpful to the reader. It is based on experience and information considered to be accurate and true.

Readers should carefully consider and verify the information with investigation of any areas with uncertainty. Polyguard does not warrant the results to be obtained. Additionally, please read everything here in conjunction with Polyguard's conditions of sale, which apply to everything supplied by us. No statement here is intended for any use which would infringe any patent or copyright.

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

Contact *Polyguard Products, Inc.* for further information.

PACKAGING INFORMATION

Product	Unit of Measure	Approximate Coverage	Weight / Unit	Palletization
<i>TERM Isolation Joint Barrier</i> 2" x 48" x 0.5"	Each	2" width – 4' length	2.0	NA
Polyguard 650 LT Liquid Adhesive	5 Gal Pail or 4-1 Gal Pail	250 – 350 ft ² /gallon	45 lb. 31 lb.	36 Pails 54 Cartons

PHYSICAL PROPERTIES

Typical Properties of TERM Isolation Joint Barrier			
Property	Test Method	English	Metric
Color	--	Black	<i>Black</i>
Barrier Thickness	ASTM D 1000 inch (mm)	0.5" +/- .125"	12.7 +/- 3
Long Term Sealant Testing against Termite Penetration 4 field sites over 5 years vs controls	ASTM D 1758 – 06 www.polyguardbarriers.com/techref.htm	100% effective after 5 years	100% effective after 5 years
Elongation of Barrier Sealant – % Stretch Before Failure	ASTM D 412	> 500%	> 500%
Permeance to Moisture and Water Vapor	ASTM E 96-B perms	.05	.05
Water Absorption	ASTM D 570	0.1%	0.1%
Peel Adhesion	ASTM D 1000 lb/in width / (N/mm)	8.0	1.40
Low Temperature Flexibility	ASTM D 1970 180° bend over 1" mandrel at -15°F (-9.4 C)	No cracking or delamination	No cracking or delamination
Barrier Puncture Resistance	ASTM E 154 (Blunt Instrument) lb / (N)	150	546
Aperture Size of Encapsulated Stainless-Steel Screen	ASTM D 1000 inch (mm)	0.018"	.457