

TRM UV2-40

Termite Flashing Barrier

MANUFACTURER

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PRODUCT DESCRIPTION

Basic Uses

TRM UV2-40 is a non-structural pest barrier which, when properly constructed as part of the building envelope, acts as a barrier to all insects.

TRM UV2-40 is unique because it is backed by over 2 decades of testing by entomology scientists against termites and other pests. From 2000 to 2012, testing and field trials were performed at Texas A&M. After 2012, testing expanded to UGA, UF, LSU, and the City of New Orleans termite lab.

TRM UV2-40 is applied where the horizontal concrete slab intersects with the exterior sheathing. This area is a frequent entry point for termites which have come up on the outside of the foundation wall.

PRODUCT FEATURES

- The only physical termite barrier with over 2 decades of university backed testing. TRM has been evaluated by the ICC (International Code Council) against their AC 380 standard Acceptance Criteria for Termite Physical Barrier Systems.
- Strong, pliable, self-adhesive sheet flashing.
- 4-mil polyethylene film with a top protective layer of aluminum bonded to 36 mils of sealant = 40 mils thick.
- Formulated for low temperature application down to 30°F (-1°C).
- Available roll sizes in 12" x 75' and 18" x 75'.
- Apply around perimeter foundations, windows, sheathing seams, and door framing.
- Meets NFPA 285 fire resistance
- UV resistant for up to 24 months.

COMPOSITION & MATERIALS

TRM UV2-40 is a strong, pliable, self-adhesive sheet consisting of a 4-mil high density polyethylene film with a top protective layer of aluminum bonded to 36 mils of sealant. It is wound on a disposable treated release sheet.

TRM UV2-40 is formulated for low temperature application down to 30°F (-1°C).

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

Preparation: Apply TRM UV2-40 only in fair weather, with temperatures above 30°F (-1°C) and rising.

If weather is cold and/or damp, making initial adhesion marginal, application of 650 LT Liquid Adhesive or California Sealant will assist the initial adhesion.

Membrane Installation:

Remove sharp protrusions such as concrete, mortar, or plaster.

Make sure the surface is clean, dust free, smooth, and dry. Adhesive surface of the tape should not be in contact with any caulks or sealants containing plasticizers or solvents. This includes most silicone or polyurethane sealants.

Stir liquid adhesive before use. If using 650 LT Liquid Adhesive or California Sealant, apply at a rate of 250-300 square feet per gallon. If using 650 WB Liquid Adhesive, apply at a rate of 350-400 square feet per gallon. Coverage rate could vary drastically depending on the porosity of the exterior sheathing. Apply liquid adhesive to all surfaces which will receive TRM UV2-40.

Cut pieces of flashing to length as needed and apply to substrate 30- 60 minutes after liquid adhesive has been applied.

The flashing should be placed with its horizontal portion extending no closer than 1/2-inch from the edge of the horizontal ledge.

Remove only the first 6-12 inches of release liner and adhere the exposed adhesive face to the substrate. This will assist you with correct positioning of the flashing.

Where one piece of flashing is being placed next to another, overlap the flashing 2-inches minimum.

If two pieces overlap vertically be sure to shingle them, with the lower piece or the piece closest to the exterior overlapped by the other. Extend flashing past the TRM Sill edge to ensure tie-in.

Roll flashing firmly into place with a hand roller.

Use Detail Sealant PW™ or TRM Sealant to seal all top horizontal terminating edges on walls, pipes, and other protrusions.

Link to installation video: [TRM Non-Chemical Termite Barrier – Flashing with Moisture and Termite Exclusion - Polyguard - YouTube](#)

Inspections and Repairs: Visually inspect TRM UV2-40 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.

Ultraviolet Protection:

TRM UV2-40 is UV resistant for up to 24 months.

MAINTENANCE:

No maintenance should be required unless the product has been damaged by construction or by some other activity.

LIMITATIONS

When properly installed, TRM Barrier 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, barrier should be stored 50-75°F prior to application.

SAFETY

SDS documents for all Polyguard products can be obtained at our website 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.
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PROPERTY	TEST METHOD	TYPICAL VALUE
COLOR	-	Silver
MEMBRANE THICKNESS	ASTM D 1000	40 mils
LONG TERM TESTING AGAINST TERMITE PENETRATION	ICC AC 380	ICC AC 380 Compliance ICC ESR-3632
ELONGATION OF BARRIER SEALANT - PERCENT STRETCH BEFORE FAILURE	ASTM D 412	> 1000%
PESTICIDE REPELLENCY (CHLORDANE, FIPRONIL, PERMETHRIN)	ASTM F 2130	0% penetration
PERMEANCE TO MOISTURE / WATER VAPOR	ASTM E 96-B	0.035 Grains/ft ² /hr./in
TENSILE STRENGTH – FILM BACKING	ASTM D 882	5470 PSI
TENSILE STRENGTH – BARRIER COMPOSITE	ASTM D 412 (Modified Die C)	325 PSI
PEEL ADHESION	ASTM D 903	12.1 lb./in width
OVERLAP BOND	ASTM D 1876	8.0 lb./in width
LOW TEMPERATURE FLEXIBILITY	ASTM D146 180° bend over 1" mandrel @ -25°F (-32°C)	No cracking or delamination
BARRIER PUNCTURE RESISTANCE	ASTM E 154 (Blunt Instrument)	50 lb.
RESISTANCE TO HYDROSTATIC HEAD	ASTM D 5385	231 ft.
EVALUATION OF FIRE PROPAGATION OF BUILDING MATERIALS	NFPA 285	Compliant*

*Related to specific assemblies

PACKAGING	PART NUMBER	UNIT SIZE
TRM UV2-40	varies/size	75' roll
TRM UV2-40 Accessories:		
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
650 WB LIQUID ADHESIVE <i>(for applications in in temperatures of 40° and rising)</i>	650-5 WB ADH	5-gallon pail
DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW – 3 GAL	3-gallon pail
TRM SILL	varies/size	66.7' roll

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