TERM® Tile Underlayment | Termite Barrier
Termite Anti-Fracture Membrane Underlayment

MANUFACTURER
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PRODUCT DESCRIPTION
Basic Uses
TERM® Tile Underlayment | Termite Barrier is a non-structural barrier which when properly constructed as part of the building envelope, blocks both termites and water. TERM Tile Underlayment | Termite Barrier does not contain pesticides and is classified by the EPA as a physical barrier.

Additionally, TERM Tile Underlayment | Termite Barrier fills the traditional role of anti-fracture tile underlayment, helping to prevent cracks in the subfloor from appearing in the tile surface above by absorbing stress created by cracks up to 1/8".

Plus, TERM Tile Underlayment | Termite Barrier has sound absorbing and insulating qualities making the floor quieter and warmer in winter.

PRODUCT FEATURES
- Roll is 37" wide x 73.3' long.
- Nonstructural barrier for wood or concrete subfloors.
- Blocks both termites and water when properly installed.
- Does not contain pesticides.
- Absorbs stress by cracks up to 1/8-inch.
- Prevents cracks in subfloor from appearing in tile surface.
- Has sound absorbing qualities which makes the floor quieter (STC=69 dB).
- The only physical termite barrier with over 2 decades of university backed testing. TERM® has been evaluated by the ICC (Internation Code Council) against their AC 380 standard Acceptance Criteria for Termite Physical Barrier Systems.

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 *"Non-chemical pest preventative measures…..designed into the structure…"*. TERM Barriers are non-chemical 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.

TECHNICAL DATA
See physical properties table.

INSTALLATION
Surface Preparation: The subfloor shall be clean, dry, and dust free. Non-moving cracks >3/16-inch should be filled prior to application. If the floor does not have old adhesive from previous covering, apply 650 WB Liquid Adhesive at the rate of approximately 350-400 ft²/gallon, being sure to stir the liquid adhesive prior to use. (If old adhesive from a previous floor is found, call Polyguard for technical guidance). Allow liquid adhesive to dry to a slight tacky surface. Can be applied with brush, short nap roller or spray applied, but do not multicoat or apply excess amounts.

Installation: The important thing to remember is that the TERM Tile Underlayment | Termite Barrier, when completely installed, should form a 100% seal across the entire horizontal surface of the floor. There should be no gaps between the barrier sealant of adjacent rolls, or between the TERM Sill Moisture | Termite Barrier sealant extending out from the edge of the sill plate. Cut roll to desired length. Remove the silicone coated release sheet immediately before application. Place the exposed adhesive bottom onto the subfloor, butting against, but not overlapping, the adjacent piece. Smooth into place as you go, trying to avoid air blisters. If blisters do occur, they can be slit and the membrane pressed flat. Use pressure from a roller or otherwise to ensure that the barrier is well conformed to the subfloor surface. If thin set mortar is used, then it is recommended to use a latex modified thin set.

Inspection and Repairs: If at completion any gaps are found between adjacent sealant areas, they should be filled with TERM Sealant Barrier.

LIMITATIONS
This material is not recommended for use on subfloor surfaces where water vapor transmission or head pressure exists (example shower stalls or shower pans). This material is not recommended where cracks exceed 3/8-inch, areas with horizontal movement > 1/4-inch or expansion joints that move vertically and horizontally.

When properly installed, TERM® 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 TERM® components blocks more termite entry points but does not guarantee protection in areas the TERM® products are not applied.

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.

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

STORAGE
All Polyguard products must be handled in a safe manner. Some products may 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 Safety Data Sheet (SDS) before use.

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
LONG TERM TESTING AGAINST TERMITE PENETRATION	ICC AC 380	ICC AC 380Compliance ICC ESR-3632
ELONGATION OF BARRIER SEALANT – PERCENT STRETCH BEFORE FAILURE	ASTM D 412	> 1000%
PERMEANCE TO MOISTURE / WATER VAPOR	ASTM E 96-B	0.035 Grains/ft^2/hr./in
WATER ABSORPTION	ASTM D 570	0.1%
LOW TEMPERATURE FLEXIBILITY	ASTM D146 180° bend over 1" mandrel @-25°F (-32°C)	No cracking or delamination
MEMBRANE THICKNESS	ASTM D 1000	60 mils
PEEL ADHESION	ASTM D 903	> 10.0 lb./in width
ROBINSON TEST - LOAD CYCLING	ASTM C 627	Rated for light commercial
IMPACT INSULATION CLASS 6" SLAB / 40 MIL BARRIER / QUARRY TILE / CEILING	ASTM E 492-04 ASTM E 989-89	IIC = 69 dB
SOUND TRANSMISSION CLASS 6" SLAB / 40 MIL BARRIER / QUARRY TILE / CEILING	ASTM E 90-04 ASTM E 413-04	STC = 69 dB

PACKAGING	PART NUMBER	UNIT SIZE
TERM® TILE UNDERLAYMENT | TERMITE BARRIER	TERMTILE37	65' roll
TERM® TILE UNDERLAYMENT | TERMITE BARRIER Accessories:		
650 WB LIQUID ADHESIVE	650-5 WB ADH	5-gallon pail
TERM® TERMITE SEALANT - Quart	TERMSEAL Q	4 – 1 qt/ctn
TERM® TERMITE SEALANT - Gallon	TERMSEAL GALLON	4 – 1 gal/ctn
TERM SILL	varies/size	66.7' roll

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