

TERM[®] Sill Moisture | Termite Barrier

Termite Adhesive Sealant Barrier

MANUFACTURER

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PRODUCT DESCRIPTION

Basic Uses

TERM[®] Sill Moisture | Termite Barrier is an adhesive sealant barrier designed to prevent termites from accessing wood framing members from a concrete crack or joint in the concrete floor. It adheres to the subfloor and blocks termite access to the sill.

Concrete cracks and joints are one of the main access points for subterranean termites into structures. TERM Sill Moisture | Termite Barrier installed underneath the sill plate provides 5 advantages:

1. Is a non-chemical barrier to subterranean termites. The barrier has been tested against termites since 2000 by Texas A&M University and is classified as a non-pesticide "barrier" by EPA regulators.
2. Provides protection from water and vapor for wood and steel framing.
3. Blocks moisture and cold air from the exterior, and energy leaks from the interior.
4. Excludes foraging insects such as ants and cockroaches from entering at gaps between the sill plate and rarely quite level slabs.
5. Provides supplemental protection to sodium borate treatment of wood framing.

PRODUCT FEATURES

- The only physical termite barrier with over two decades of university backed testing. TERM[®] 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 high density polyethylene film bonded to 64 mils of sealant = 68 mils thick.
- Formulated for low temperature application down to 30°F (-1°C).
- For flashing and seam application, available roll widths are 6", 7", 8", 9", 10" and 12".
- All rolls are 66.7' long.
- Apply on perimeter foundation before TRM Sill is attached, can also be used under interior framing if desired.
- 30-day UV exposure.

COMPOSITION & MATERIALS

TERM[®] Sill Moisture | Termite Barrier is a 68-mil thickness of high strength film backed barrier sealant. TERM Sill Moisture | Termite Barrier is wound onto a disposable treated release sheet, which can be peeled away to expose the adhesive face just prior to application.

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

General: If the interior of the horizontal slab is to be protected by TERM[®] Flooring Underlayment Barrier, TERM[®] Sill Moisture | Termite Barrier is required under both perimeter and interior framing. Sill Barrier and Flooring Underlayment Barriers should be tied together at time of construction.

Preparation: Calculate width needed of TERM[®] Sill Moisture | Termite Barrier. Below you can calculate the exterior perimeter sill barrier width by adding A through E:

- A. Width of sill
- B. Exterior drop of sill
- C. Extend 2-inches onto concrete brick ledge
- D. Interior drop of sill
- E. If TERM[®] Flooring Underlayment is specified, then add 1-inch minimum on the interior side

Total of A through E is the width of sill barrier needed.

Weather Conditions: Apply TERM[®] Sill Moisture | Termite Barrier only in fair weather, with temperatures above 30°F (-1°C) and rising.

Clean all surfaces to remove debris, dust and loose stones before application begins. DO NOT apply Liquid Adhesive or Barrier to frozen concrete.

Priming: The use of liquid adhesive will assist initial adhesion. Stir Liquid Adhesive before use. Apply over the entire surface at a rate of 250-350 square feet per gallon. Primed surfaces must be re-primed if barrier is not applied to the Liquid Adhesive within the same working day. Use brush or lamb's wool roller for application. 650 LT Liquid Adhesive is designed to be used in ambient temperatures and surface temperatures down to 25° F (-4° C and rising. 650 WB Liquid Adhesive is to be used only for temperatures above 40°F (5°C) and rising. Liquid Adhesive must be dry prior to application of barrier.

Installation: One of the most important things to remember about installing the TERM® Sill Moisture | Termite Barrier is to know exactly where you want to place the barrier and the sill, and to place the material exactly. The sealant forms a strong bond to the concrete, and it is difficult to reposition once it is in place.

Install TERM Sill Moisture | Termite Barrier on the concrete prior to placing the sill.

- a. Prime the concrete with Liquid Adhesive.
- b. Cut a length of barrier from the roll. For exterior perimeter framing, the width of the roll should be wide enough to extend 1-inch onto the interior horizontal concrete and 2-inches onto the exterior horizontal concrete. For interior framing, the width of the roll should be 2" wider than the sill. A graphic representation of the required widths for exterior and interior framing is shown above. The length of the Sill Barrier should be ½-inch longer than the sill which will go over it.
- c. Once primer is dry place the length of barrier on the concrete, beginning about ½-inch before the beginning of the sill.
- d. Peel away one end of the release sheet about ½-inch to 1-inch, exposing the face of the adhesive on one side.
- e. Adhere the adhesive to the concrete at one end of where the sill will be positioned, remembering to leave about ¼-inch of the adhesive past the end of the sill, and remembering to keep the barrier exactly in line with the location of the sill. There should be 1-inch of barrier exposed horizontally on each side of all interior sill once installed. On perimeter sill, the barrier must extend 1-inch horizontally on the interior side, and 2-inches onto the horizontal concrete underneath where the base flashing will be installed.
- f. Without peeling away any more release sheet away, place the barrier along the full length of the sill location, leaving 1-inch exposed on either side. If the barrier is out of line with the sill, you can cut the tape and restart to make the barrier in line. (Note: Exact positioning is especially important since it is extremely difficult to remove the barrier once it has been adhered to the substrate.)
- g. When the barrier is positioned properly, slowly peel away the remainder of the release liner, pressing the barrier down against the concrete as you go.
- h. TERM® Flashing Moisture | Termite Barrier or TERM® UV Flashing Moisture | Termite Barrier is strongly recommended. This flashing will ensure a complete seal between the barrier and the sill and protect the vulnerable sheathing seams at slab level.

[Link to installation video: TERM® Non-Chemical Termite Barrier – Sill Barrier Excludes Moisture and Termites - Polyguard - YouTube](#)

Ultraviolet Protection: TERM® Sill Moisture | Termite Barrier can be adversely affected by ultraviolet light and must be covered as soon as possible and not left open to sunlight for >30 days.

INSPECTION AND REPAIRS:

Visually inspect barrier for gaps. These can occur where the underside of the sill has bare spots, where the barrier does not extend past the end on both sides of the sill, or where

(due to irregular areas in a slab) there is a gap between the barrier and the sill. Make repairs by applying TERM Termite Sealant Barrier to seal all void areas.

LIMITATIONS

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

Polyguard's TERM® 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

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
COLOR	-	White / Red
MEMBRANE THICKNESS	ASTM D 1000	68 mils
LONG TERM TESTING AGAINST TERMITE PENETRATION	ICC AC 380	ICC AC 380 Compliance ICC ESR-3632
PEEL ADHESION	ASTM D 903	17.0 lb./in width
ELONGATION OF BARRIER SEALANT – PERCENT STRETCH BEFORE FAILURE	ASTM D 412	> 1000%
LOW TEMPERATURE FLEXIBILITY	ASTM D146 180° bend over 1" mandrel @-25°F (-32°C)	No cracking or delamination
PERMEANCE TO MOISTURE / WATER VAPOR	ASTM E 96-B	0.03 Grains/ft ² /hr./in

PACKAGING	PART NUMBER	UNIT SIZE
TERM[®] SILL MOISTURE TERMITE BARRIER	varies/size	66.7' roll
TERM[®] SILL MOISTURE TERMITE BARRIER 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
650 WB LIQUID ADHESIVE	650-5 WB ADH	5-gallon pail
TERM [®] SPRAY ADHESIVE	TERM363 X 12	14 oz can – 12 cans/ctn
TERM [®] TERMITE SEALANT - Quart	TERMSEAL Q	4 – 1 qt/ctn
TERM [®] TERMITE SEALANT - Gallon	TERMSEAL GALLON	4 – 1 gal/ctn

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