Polyguard®
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TERM WATERPROOFING | TERMITE BARRIER

U. S. Patent No. 7,488,523 and 7,686,903

EPA Establishment No. 89537-TX-1

PRODUCT DATA SHEET

Sill Moisture | Termite Barrier

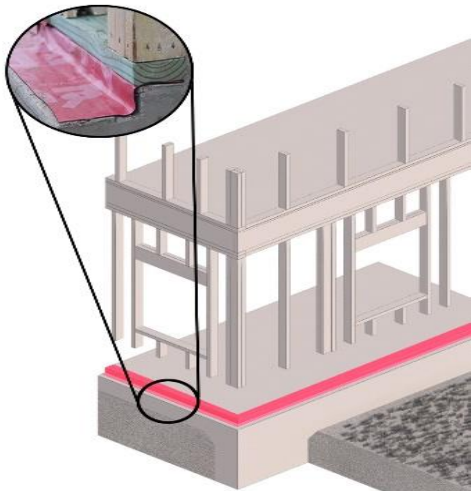
ICC ES

international Code Council Termite Barrier System Report ESR-3632

Link to ICC ESR-3632

POINT OF PROTECTION

Protects sill area against termite and water entry



DESCRIPTION

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 floor. *TERM Sill Moisture|Termite Barrier* adheres to the subfloor and blocks termite access to the sill.

ADVANTAGES

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. *TERM Sill Moisture|Termite Barrier* 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. *TERM Sill Moisture|Termite Barrier* provides a full waterproofing and vapor proofing barrier for wood and steel framing against moisture from the concrete.

3. *TERM Sill Moisture|Termite Barrier* blocks moisture and cold air from the exterior, and energy leaks from the interior.

4. *TERM Sill Moisture|Termite Barrier* excludes foraging insects such as ants and cockroaches from entering at gaps between the sill plate and the not quite level slab.

5. *TERM Sill Moisture|Termite Barrier* provides supplemental protection to sodium borate treatment of wood framing.

DESCRIPTION OF COMPONENTS

TERM Sill Moisture|Termite Barrier is a 68-mil thickness of high strength film backed barrier sealant. *TERM Sill Moisture|Termite Barrier* is formulated for low temperature application down to 30°F *(-1°C). 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. Standard roll widths are in 1-inch increments from 5" x 61' *(.127 m x 17.2 m)* to 9" x 61' *(.229 m x 17.2m). Other sizes are available on special order.*

Polyguard TERM Termite Sealant is a solvent-based form of the *TERM Sealant* suitable for application with a caulking gun.

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).*

Polyguard 650 Water-Base Liquid Adhesive is available where VOC concerns or limitations apply.

Polyguard 650 Mastic is asphalt mastic with a low solvent content, used to waterproof exposed edges of TERM Barrier Products.

REFERENCES

LEED: Here is a link to LEED v4 Documentation:

http://www.polyguardproducts.com/wp-content/uploads/2017/11/LEED-v4-Documentation-11-13-17.pdf

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 Safety Data Sheet (SDS) before use.

Because of the danger posed by solvent fumes, Polyguard 650LT Primer should not be used in an enclosed space. If circumstances require the use in a confined area, use adequate forced ventilation, fresh air masks, explosion proof equipment, and clean clothing.

SDS sheets:
https://www.polyguardproducts.com/term/wp-content/uploads/2021/10/Term-Membranes-5-4-2020.pdf

HPD info:

https://www.polyguardproducts.com/term/term-hpd/

Call *Polyguard* at 214-515-5000 if you have questions.

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.*

INSTALLATION

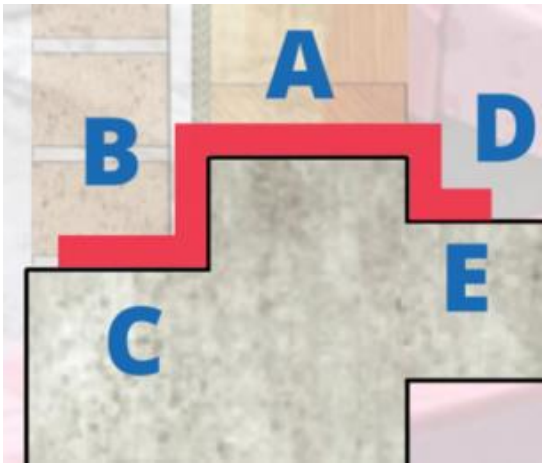
General

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.

Preparatory Work

Calculate width needed of *TERM Sill Moisture|Termite Barrier. Below you can calculate the exterior perimeter sill barrier width:*

Calculate the required width of *TERM Sill Moisture|Termite Barrier* for a perimeter sill

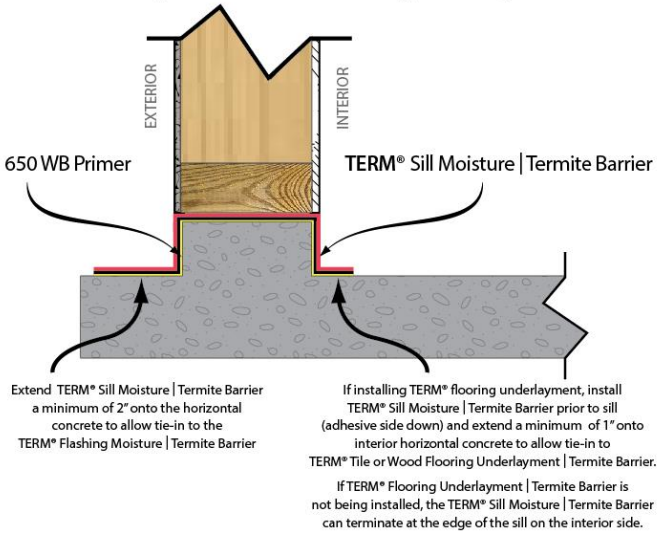


Dimension	Add these
A	Width of sill
B	Exterior drop of sill
C	Extend 2" onto concrete brick ledge
D	Interior drop of sill
E	*If TERM Flooring Underlayment is specified* Add 1" minimum on the interior side
Total of A through E is the width of sill barrier needed	

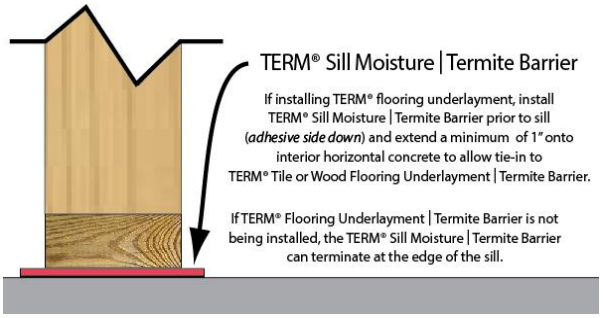
Here is a link to the Sill Barrier installation video:

https://www.youtube.com/watch?v=42thN8aXt3k

TERM® Sill Moisture | Termite Barrier
(Exterior Perimeter Sill Application)



TERM® Sill Moisture | Termite Barrier
(Interior Sill Application)



Weather Conditions

Apply *TERM 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 *(6-8.5 m^2/l)*. 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 WB Water se Liquid Adhesive* can also be applied using airless or air assisted sprayer. *Liquid Adhesive* must be dry prior to application of barrier.

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 650 WB *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" onto the interior horizontal concrete and 2" 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" 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" before the beginning of the sill.
d. Peel away one end of the release sheet about ½" to 1", 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" 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" of barrier exposed horizontally on each side of all interior sill once installed. On perimeter sill, the barrier must extend 1" horizontally on the interior side, and 2" 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" 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 that 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 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.

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.

Ultraviolet Protection:

TERM Sill Moisture|Termite Barrier can be adversely affected by ultraviolet light. The barrier material must be covered as soon as possible and not left exposed to sunlight for over 30 days.

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, barrier should be stored 50-75°F prior to application.

HEALTH AND SAFETY

All Polyguard Products Safety Data Sheets (SDS) and precautionary labels should be read and understood by all user supervisory personnel and employees before using. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use, health, safety, and disposal of the product.

TECHNICAL SERVICES & SALES

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PACKAGING INFORMATION

PRODUCT	UNIT OF MEASURE	APPROXIMATE COVERAGE	LB/UNIT	PALLETIZATION
TERM Sill Moisture|Termite Barrier 5" x 61' *(.127 m x 17.2 m)* 6" x 61' *(.152 m x 17.2 m)* 7" x 61' *(.178 m x 17.2 m)* 8" x 61' *(.203 m x 17.2 m)* 9" x 61' *(.229 m x 17.2 m)* *Other widths available in 1" increments*	*Rolls per carton* 7 6 5 4 4	*LF per carton* 427 366 305 244 244	*LB / carton* 80 82 80 73 82	30 cartons
Polyguard 650 WB Water Base Liquid Adhesive	5-Gal Pail *or* 4-1-Gal Pail	300 – 350 ft2/gallon	45 lb. 31 lb.	36 Pails 54 Cartons
TERM Spray Adhesive	Carton (12 cans)	25 LF / can	11 lb./ctn.	NA
TERM Sealant Barrier	Carton with 4-quart cans Carton with 4 1 gal cans	½" bead 52 LF/Quar ½" bead 208 LF/Gallon	9 lb. 36 lb.	NA

PHYSICAL PROPERTIES

PROPERTY	ASTM METHOD	RESULTS (ENGLISH)	RESULTS (METRIC)
Color	--	White / Red	*White / Red*
Barrier Thickness	ASTM D 1000 inch *(mm)*	.068	*1.52*
Long Term Testing against Termite Penetration	ICC AC 380 Acceptance Criteria for Termite Physical Barriers	ICC ESR compliance ESR3632	*ICC ESR compliance* ***ESR3632***
Peel Adhesion	ASTM D 903 lb./in width / *(N/mm)*	17.0	*2.9*
Elongation of Barrier Sealant – Percent Stretch Before Failure	ASTM D 412	> 1000%	*> 1000%*
Low Temperature Flexibility	ASTM D 146 180◦ bend over 1" mandrel at -25◦F *(-32◦C)*	No cracking or delamination	No cracking or delamination
Permeance to Moisture / Water Vapor	ASTM E 96-B Grains/ft2/hr./in HGF *(grains/hr./m2)*	.03	*.02*

* Please refer to testing at this web address: www.polyguardproducts.com/term/techref.htm

LIMITATIONS

The *TERM Sill Water|Termite Barrier* is just one piece of an extensive termite barrier system

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

https://www.polyguardproducts.com/term/exclusion-101/how-pests-enter-structures/

If you look at the termite web link above, you will see some of the many places on a structure where termites can enter.

Polyguard's TERM Division has developed products and applications to exclude termites at most entry points, but not all of them. We have in development barriers for additional entry points. Each correctly installed TERM barrier component adds to the probability that the structure will have less termite problems and will require less chemical treatment to treat termite infestations.

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. Polyguard's TERM Barrier System products are part of an Integrated Pest Management (IPM) program and where local regulations require, may be used to supplement termiticide applications.

There are numerous other termite species, not known to be present in the United States, which are equally or more voracious than the U.S. species which were tested. Limited 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 are applicable to everything supplied by us. No statement here is intended for any use which would infringe any patent or copyright.

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