TERM® Sill Moisture|Termite Barrier

International Code Council
Termite Barrier System
Report ESR-3632

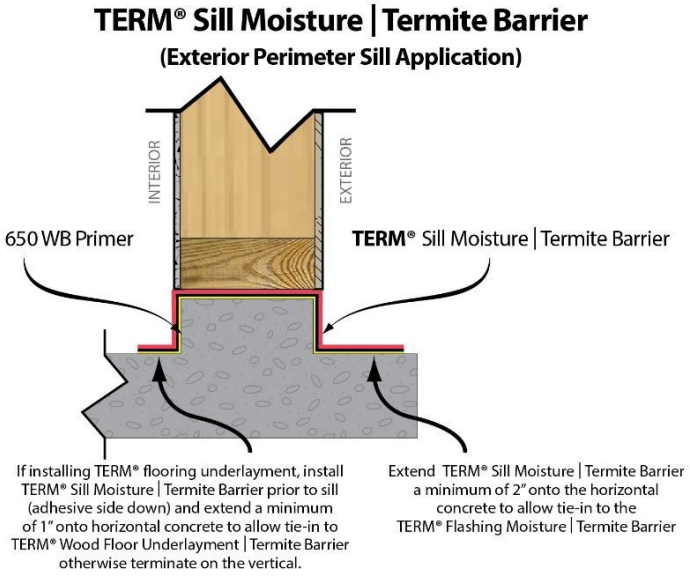
Link to ICC ESR-3632

Product Data Sheet

EPA Establishment No. 89537-TX-1

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.



Perimeter sill - Waco, TX

ADVANTAGES

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 *"device"* by EPA regulators.

2. *TERM Sill Moisture|Termite Barrier* provides a full waterproofing and vapor proofing barrier for wood 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.

TERM® vs TERMITE SHIELDS

TERM Barriers and termite shields are similar, in that both physically block termites. But *TERM* is different from termite shields - in that *TERM* can be applied at almost every subterranean termite entry point on the structure, and everywhere that *TERM* is correctly applied, termites will be blocked.

Plus, *TERM* waterproofs buildings.

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 ½" increments from 3.5" x 61' *(.088 m x 17.2 m)* to 6.5" x 61' *(.216 m x 17.2m).*

Polyguard 650 WB Liquid Adhesive is a fast drying, high tack rubber-based adhesive primer at temperatures above 30°F *(-1°C).* Note that 650 WB takes longer to cure (to become tacky) than solvent based adhesives take to cure.

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

REFERENCES

LEED
Click here to view LEED v4 Documentation.

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 Safety Data Sheet (SDS) before use. SDS sheets can be obtained on our website Link to SDS's. Call *Polyguard* at 214-515-5000 if you have any questions. Health Product Declaration information is also available Link to HPD Info.

Prohibit flames, sparks, welding and smoking during application.

Refer to product label for handling, using 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 from solvents.

General

A TERM Sill Barrier installation video can be seen at https://www.youtube.com/watch?v=kbrtohKN2jc.

If the horizontal slab at ground level is 100% protected by TERM Underslab Waterproofing|Termite Barrier, *TERM Sill Moisture|Termite Barrier* is only required for protection of perimeter framing.

If the horizontal slab at ground level is to be 100% protected by TERM above slab flooring underlayment, *TERM Sill Moisture|Termite Barrier* is required under both perimeter and interior framing.

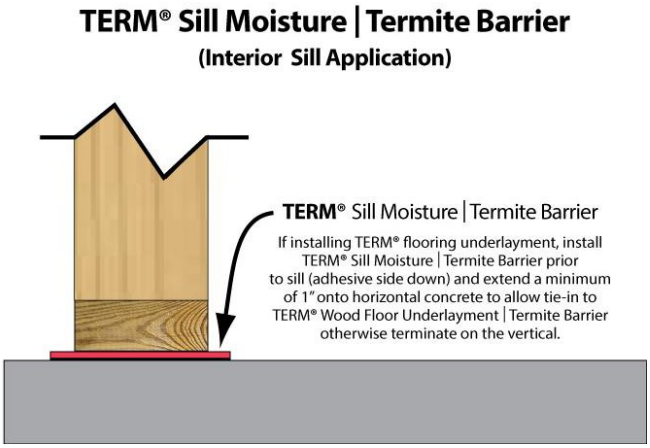
Preparatory Work

Required width of TERM Sill Moisture|Termite Barrier

For TERM Sill Moisture|Termite Barrier underneath interior framing: Barrier should be 2" wider than the width of the base plate.

For TERM Sill Moisture|Termite Barrier underneath perimeter framing: On the interior side, the sill barrier must extend 1" across the horizontal surface. On the exterior side, sill barrier must extend a minimum 2" across the horizontal. This extra barrier width should tie into the *TERM Flashing Moisture|Termite Barrier.*

If a concrete curb has been built into the slab, 2 X the height of the curb must be added to the width of the sill barrier.



Interior sill – Orlando, FL

Weather Conditions: Apply *TERM Barrier* only in fair weather, when temperatures are above 30°F *(-1°C)* and rising. If weather is cold and/or damp, making initial adhesion marginal, application of *650 WB Liquid Adhesive* or *343 Spray Adhesive* will assist initial adhesion.

Surface Preparation: A smooth monolithic concrete surface is required. Broom surfaces are not recommended. Concrete should be dry, frost free and cured a minimum of seven days prior to application of *TERM Sill Moisture|Termite Barrier*. Wood subflooring should be clean, dust free, and dry.

Application of Sill Barrier under Sills:

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 very 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 or wood subflooring prior to placing the sill.

a. Prime the concrete with 650 WB *Liquid 0Adhesive.*
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 cured (tacky) 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 very 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 strongly recommended:*** Application of *TERM Flashing Moisture|Termite Barrier*. This flashing will insure a complete seal between the barrier and the sill and protect the vulnerable sheathing seams at slab level.
i. Now the is concrete ready for installation of the sill. You can nail through the sill, as the sealant is self-healing.

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.

PHYSICAL PROPERTIES

Typical Properties of *TERM Sill Moisture|Termite Barrier*			
Property	**Test Method**	**English**	**Metric**
Color	--	Pink backing Black adhesive	*Pink backing* *Black adhesive*
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 ICC ESR-3632	ICC ESR compliance ICC ESR-3632
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*

PACKAGING INFORMATION

Packaging Information - *TERM Sill Moisture|Termite Barrier*				
Product	**Contents**	**Approximate Coverage**	**Weight / Unit**	**Palletization**
TERM Sill Moisture|Termite Barrier 5.5" x 61' *(.140 m x 17.2 m)* 7.5" x 61' *(.190 m x 17.2 m)* 8.5" x 61' *(.216 m x 17.2 m)* *Wider widths available in 1" increments*	*Rolls per carton* 7 5 4	*LF per carton* 427 305 244	*LB / carton* 64 58 65	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 343 Spray Adhesive	Carton (12 cans)	25 LF / can	11 lb./ctn.	90 Cartons
TERM Sealant Barrier	Carton with 12 10 oz. tubes	½" bead 22 LF/tube	10	100 Cartons

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

many 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. 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 are applicable 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.

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