

TERM® Sealant Barrier

EPA Establishment No. 89537-TX-1

Product Data Sheet for concrete foundations



**International Code Council
Report ESR-3632
Termite Barrier System**

Read the report @

http://www.icc-es.org/Reports/pdf_files/load_file.cfm?file_type=pdf&file_name=ESR-3632.pdf

DESCRIPTION

TERM Sealant Barrier is a sealant barrier, applied with caulking gun or smoothing tool, and used for both waterproofing and termite / insect exclusion. It is a termite shield which is neither metal nor chemical.

TERM Sealant Barrier is a non-structural barrier. When properly constructed as part of the building envelope, shields against both termites and water. Documentation of TERM development can be found at [Link — TERM Development](#)

APPLICATIONS:

1. To seal slab penetrations against termite entry:



Pest management professionals know that slab penetrations are a major termite entry point. The space between the penetration and the concrete poured around it may look small, but subterranean termites can get through an opening of 0.020". Moreover the sleeves installed on penetrations, which protect against corrosive effects of concrete, can also function as an entry tunnel for subterranean termites.

For a video showing application to an above slab penetration, go to [Link — Application Video](#)

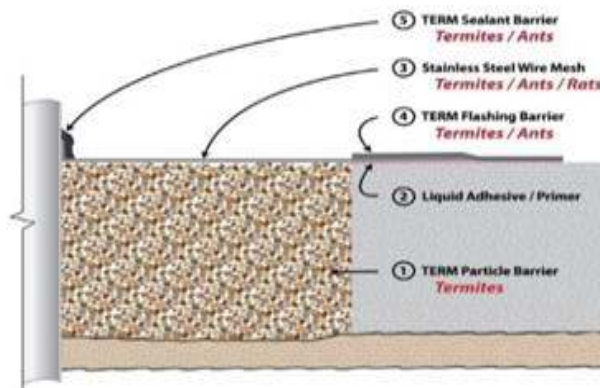


2. As a termite shield accessory to seal seams, gaps, and penetrations.

Metal termite shields have been used in termite control for many years. Termite shields physically block subterranean termites trying to enter the structure from underneath. Metal termite shields don't completely stop termites – termites can't go through the metal, but they can build their "mud tubes" around the shield. However, when they do this, the mud tube built by the termites becomes visible to pest management professionals, and can be treated.

Subterranean termites can get through a 1/50th inch gap. So they can penetrate metal termite shields at rebar penetrations, or at seams. This is where TERM Sealant Barrier is needed. By sealing seams, penetrations, and other gaps, TERM Barrier Sealant blocks the termite's hidden shortcut. Now the termites must build their mud tubes outwards. With the mud tube visible, the termite shield functions as it was intended to..

3. As a component of the TERM Full Bath Trap Barrier to exclude termites, fire ants, rodents, moles, etc. from entry underneath bathtubs at ground level:



4. To detail small gaps and tears found during inspection or construction on horizontal or vertical portions of the TERM building envelope pest barrier.



ADVANTAGES

TERM Sealant Barrier is a component of the non-structural *TERM Barrier System* which, when properly installed as part of the building envelope, acts as a barrier to almost all pests. Because almost all pests are excluded for the life of the structure, the need for pesticide treatment should be permanently and drastically reduced.

DESCRIPTION OF COMPONENTS

TERM Sealant Barrier is a sealant formulated with a proprietary blend of polymers, asphalts, additives, and solvents.

REFERENCES

As a sustainability innovation, the *TERM Barrier System* relates to LEED in two new ways, and several well known ways:

1. LEED V4 standards call out the implementation of IPM (*Integrated Pest Management*). LEED credits are using wording such as:

“Nonchemical pest preventive measures, either designed into the structure or implemented as part of pest management activities.” (highlighting by Polyguard) [Link — LEED v4 IPM Requirement](#)

Until now, the only physical pest barrier elements available for design have treated specific spots around the building envelope. TERM Barriers give a new alternative – materials to exclude pests all around the envelope. Close to 100 percent exclusion can be attained with proper construction.

2. *TERM Barrier Systems* add a new dimension to the WELL Certification. A search of the WELL Building Standard v1 for “*pest*” shows 66 occurrences of “*pest*” or “*pesticide*”. This frequency speaks to the potential improvement in interior wellness which built-in pest exclusion will bring. With reduced pest entry, buildings with TERM Barriers will experience long-term minimization of the need for chemical treatments.

Other sustainability upgrades within WELL include reduction in pest related health problems and increased peace of mind (comfort) for occupants.

For the above reasons, incorporation of *TERM Sealant Barriers* into the building envelope should be a strong candidate for Innovation credit. Click here for a compilation of LEED v4 Documentation: [LEED-v4-Documentation](#)

INSTALLATION

Safety:

All *Polyguard* products must be handled in a safe manner. Some products (some mastics, primers, or seal-



It is recommended that the slab penetration and bath trap applications described above be performed by a Pest Management Professional who is licensed in the jurisdiction where the structure is located.

ants) 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 at our website: [Link - Safety Data Sheets](#) Call *Polyguard* at 214-515-5000 if you have any questions.

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 or spray mist from solvent based liquid adhesive. *In confined areas, use adequate forced ventilation, fresh air masks, explosion-proof equipment and clean clothing.*

Detailed installation instructions (Guide specs)

For guide specifications covering above grade plumbing penetrations, bath traps, and underslab barriers click here: [Link — TERM Guide Specifications](#)

Ultraviolet Protection: *TERM Sealant Barrier* can be adversely affected by ultraviolet light. *TERM Sealant Barrier* should be covered as soon as possible and not left exposed to sunlight for over 30 days.

Inspection and Repairs: Visually inspect *TERM Sealant Barrier* for gaps where water or insects could gain entry. Make repairs by removing all damaged barrier so that only well bonded barrier remains. *TERM Underseal Fabric Tape* or an additional application of *TERM Sealant Barrier* can be used to seal any gaps. Care should be taken to obtain good adhesion between barrier used for repairs and originally applied barrier.

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.

PACKAGING INFORMATION

Product	Unit of Measure	Approximate Coverage	Weight / Unit	Palletization
Polyguard TERM Sealant Barrier	5 Gal Pail or 4-1 Gal Pail	180 LF / gallon of ¼" bead (1/2" face)	50 lb. 37 lb.	36 Pails 54 Cartons
Polyguard TERM Sealant Barrier	10 oz. tubes (12 / carton)	15 LF / tube of ¼" bead (1/2" face)	10 lb / ctn	NA

PHYSICAL PROPERTIES

TERM Tile Underlayment Barrier			
Property	Test Method	English	Metric
Color	-	Black	Black
Long Term Testing against Termite Penetration	ICC AC 380 Acceptance Criteria for Termite Physical Barriers	Furnish ICC ESR Evaluation showing compliance	Furnish ICC ES Evaluation Showing compliance
Elongation of Barrier Sealant – Percent Stretch Before Failure	ASTM D 412	1000%	1000%
Permeance to Moisture and Water Vapor	ASTM E 96-B Grains/ft ² /hr/in HGF (<i>grains/hr/m²</i>)	0.035	0.023
Water Absorption	ASTM D 570	0.1%	0.1%
Low Temperature Flexibility	ASTM D 146 180° bend over 1" mandrel at -25°F (-32°C)	No cracking or delamination	No cracking or delamination
Pesticide Repellency (<i>Chlorodane, fipronil, permethrin</i>)	ASTM F 2130	0%	0%

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 a number of 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.