

## TERM® Wood Floor Underlayment Barrier *for concrete substrates* *with termite resistance*

EPA Establishment # 89537-TX-1

### Product Data Sheet



#### DESCRIPTION

TERM® Wood Floor Underlayment Barrier is a composite membrane of polyethylene backing and TERM Sealant Barrier, 40 mils in thickness with a 1/2" extended edge to provide a complete overlap seal at the edge. This elastomeric, self-adhesive barrier is wound on cores with a disposable silicone-coated release sheet which is removed immediately prior to application.

#### USES AND ADVANTAGES

TERM Wood Floor Underlayment Barrier acts as a protective underlayment for wood and laminate flooring.

TERM Wood Floor Underlayment Barrier acts as a moisture barrier to protect wood flooring from moisture damage caused by moisture vapor coming from underneath the slab. The self-healing properties of the sealant component enable it to create a seal around any nails driven through the barrier during installation.

When properly constructed as part of a complete TERM Barrier system, TERM Wood Floor Underlayment Barrier is a non-structural, non-chemical barrier to termites and other insects. Documentation of these attributes can be found at [www.polyguardbarriers.com](http://www.polyguardbarriers.com).

Finally, TERM Wood Floor Underlayment Barrier has sound absorbing and insulating qualities which make the floor quieter and warmer in winter.

#### 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 nonchemical pest preventative measures.

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.

#### INSTALLATION

##### Safety

All Polyguard products must be handled in a safe manner. Some products (some packaged sealants 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 Material Safety Data Sheet (MSDS) before use. MSDS sheets can be obtained at our website [www.polyguardbarriers.com](http://www.polyguardbarriers.com). Call Polyguard at 214-515-5000 if you have any questions.

Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations.

##### Preparatory Work

**Handling Materials:** Polyguard barrier membranes should be handled and stored to prevent injury to packages. Material should be stored in a cool, dry place, kept from contact with earth and protected from weather. Materials should be stored in heated buildings during cold weather.

**Surface Preparation:** The subfloor shall be clean, dry, and dust free. Non-moving cracks >3/16" should be filled prior to application. Apply ShurTac™ Waterbase Liquid Adhesive at the rate of approximately 250-300 ft<sup>2</sup>/gallon, being sure to stir the liquid adhesive prior to use. Allow liquid adhesive to dry to a slight tacky surface. Can be applied with brush, short nap roller, or spray applied. Do not multicoat or apply excess amounts.

**Application:** The important thing to remember is that the TERM Wood Floor Underlayment 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 Plate Barrier sealant extending out from the edge of the sill plate.

Cut roll to desired length. Remove 3" - 4" of the silicone coated release sheet to begin application. Place the exposed adhesive bottom onto the subfloor, overlapping, 1/2" onto the extended adhesive edge of the adjacent piece. Prime overlap area of 2" at end lap and place underlayment. Smooth into place as you go, eliminating wrinkles. If blisters occur, they can be slit and the membrane pressed flat. Use pressure from a roller or otherwise to insure that the barrier is well conformed to the subfloor surface.

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

**Cool Weather:** When applied in cool temperature conditions, the adhesive surface of *TERM Wood Floor Underlayment Barrier* may lose a portion of its adhesiveness. The following measures will improve adhesion in cool installation conditions:

Keep rolls of barrier in a warm storage area prior to using.

### 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 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.

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", areas with horizontal movement > 1/4" or expansion joints that move vertically and horizontally.

### PHYSICAL PROPERTIES

TERM Wood Floor Underlayment Barrier for Concrete Substrates		
Property	Test Method	Average Results
Pull-Off Strength of Primer Adhesive and Underlayment	<b>Test Program Using *</b> ASTM F 1869 - <i>Measuring MVER Rate</i> ASTM F 2170 - <i>Relative Humidity in Slab</i> ASTM D 7234 - <i>Pull-Off Adhesion</i>	@ MVER of ≤5 lb./1000 ft <sup>2</sup> in 24 hours OR RH% ≤ 80% @28 days 34.75 PSI avg. @90 days 39.55 PSI avg. @90 days + 28 days @ 100% RH 46.2 PSI
Long Term Testing against Termite Penetration	ASTM D 1758-06 Texas A&M 4 Sites over 5 years vs. controls	100% effective (zero penetration)
Elongation of Barrier Sealant – Percent Stretch Before Failure	ASTM D 412	> 700%
Pesticide Repellency (Chlorodane, fipronil, permethrin)	ASTM F 2130	0%
Permeance to Moisture and Water Vapor	ASTM E 96-B perms	.02
Sealability Around Nails	ASTM D 1970	Pass
Water Absorption	ASTM D 570	0.1%
Low Temperature Flexibility	ASTM D 146	No effect
Total Thickness	ASTM D 1000	.040"

\* Contact *Polyguard* for information regarding this test program

### PACKAGING

Wood Floor Underlayment Barrier for Concrete Substrates			
Roll Size	Rolls / Carton	Ft <sup>2</sup> / Carton	LBS / CTN
37" x 97.3'	1	300	65#

Accessory pail	Coverage	Weight
Shur-Tac 5-gallon pail	250-300 ft <sup>2</sup> /gallon 1250-1500 ft <sup>2</sup> /pail	45

### PRECAUTIONS

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.

*Polyguard Products, Inc.* will replace F.O.B. Ennis, Texas, material not meeting our manufacturer's specifications one year from date of sale. Made in the U.S.A.

### TECHNICAL SERVICE / INFORMATION

Technical assistance and information about *Polyguard* products is available by contacting *Polyguard Products, Inc.*