TERM® Wood Floor Underlayment|Termite Barrier

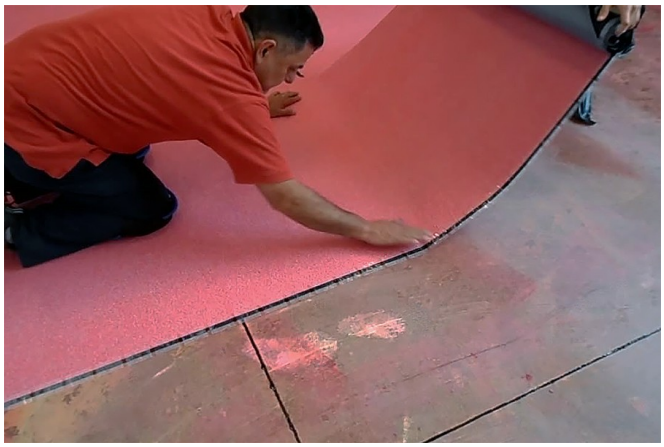
A self-adhesive moisture barrier and a non-chemical termite barrier

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® Wood Floor Underlayment|Termite Barrier is a composite membrane of polyethylene backing and *TERM Sealant Barrier*, 40 mils in thickness with a ½" 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.

ADVANTAGES

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

TERM Wood Floor Underlayment|Termite 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|Termite* is a non-structural barrier which when properly constructed as part of the building envelope, blocks both termites and water. Documentation can be found at: Link to Termite Barrier Development

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

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* blocks almost every entry point that a subterranean termite could find.

Plus, *TERM* waterproofs buildings.

REFERENCES

LEED

Click here to view LEED v4 Documentation.

INSTALLATION

Safety

All *Polyguard* products must be handled safely. If mastics or primers contain solvents, 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.

Preparatory Work

Moisture in Concrete: Concrete substrates should have an RH < 75%, following the procedures outlined in ASTM F2170 *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.*

Handling Materials: *Polyguard* materials should be handled and stored to prevent injury to packages. Store material in a cool, dry place, kept from contact with earth and protected from weather. Store materials 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 Polyguard *650 WB Waterbase Liquid Adhesive* at the rate of approximately 300-350 ft²/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|Termite 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 courses, 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, ½" 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 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|Termite Barrier* may lose a portion of its adhesiveness:

Keeping rolls of barrier in a warm storage area prior to using will improve adhesion in cool installation conditions:

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.

PHYSICAL PROPERTIES

TERM Wood Floor Underlayment|Termite Barrier for Concrete Substrates		
Property	**Test Method**	**Average Results**
Pull-Off Strength of Primer Adhesive and Underlayment	**Test Program Using** * ASTM F 1869 - *Measuring MVER Rate* ASTM F 2170 – *Relative Humidity in Slab* ASTM D 7234 - *Pull-Off Adhesion*	@ MVER of ≤5 lb./1000 ft² 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	ICC AC 380 Acceptance Criteria for Termite Physical Barriers	ICC ESR Evaluation Report ICC ESR-3632
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 perms	.03
Permeance to Moisture and Water Vapor after Nail Puncture *(self-healing property)*	ASTM E 96 perms	.05
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|Termite Barrier for Concrete Substrates			
Roll Size	**Rolls / Carton**	**Ft2 / Carton**	**LBS / CTN**
37" x 73.3'	1	225	65#

Accessory pail	Coverage	Weight
Polyguard 650 WB Liquid Adhesive - 5-gallon pail	300-350 ft²/gallon 1500-1750 ft²/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.*