

TERM® Wood Floor Underlayment | Termite Barrier

Termite Membrane Underlayment

MANUFACTURER

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PRODUCT DESCRIPTION

Basic Uses

TERM® Wood Floor Underlayment | Termite Barrier is 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 vapor coming from up through the slab. The self-healing properties of the sealant component enable it to create a seal around any nails driven through the barrier during floor installation.

When properly constructed as part of a complete TERM Barrier system, TERM Wood Floor Underlayment | Termite Barrier is a non-structural barrier which, properly constructed as part of the building envelope, blocks both termites and water.

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

PRODUCT FEATURES

- Protective underlayment for wood and laminate flooring.
- Acts as a moisture barrier to protect wood flooring from moisture damage caused by moisture vapor coming from underneath the slab.
- Self-healing properties enable it to create a seal around any nails driven through the barrier during installation.
- When properly installed, blocks both termites and water.
- The only physical termite barrier with over 2 decades of university testing. TERM® has been evaluated by the ICC (International Code Council) against their AC 308 standard Acceptance Criteria for Termite Physical Barrier Systems.

COMPOSITION & MATERIALS

TERM® Wood Floor Underlayment | Termite Barrier is 40 mils in thickness. The most key component is the sealant, a proprietary polymer and asphalt blend which blocks moisture and termites, and acts as a sound absorbent layer.

A layer of polypropylene film is laminated to the top of the sealant. The film has a skid resistant finish.

An inner layer of removeable silicone coated release liner is on the underside. Removing the release liner exposes the adhesive face of the sealant.

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 non-chemical pest preventative measures.

LEED rating systems for homes incorporate (SSC5) “Non-toxic pest control”. Two components found in the TERM Barrier System are mentioned; they are steel mesh and sand barriers. Both are used as termite barriers.

TERM Sealant Barrier / membranes are not mentioned, as they are only now entering the field for sustainable construction alternatives.

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.

TECHNICAL DATA

See physical properties table.

INSTALLATION

Prior to installation, rolls of TERM® Wood Floor Underlayment | Termite Barrier should be stored in a warm place.

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.

Surface Preparation: The subfloor shall be clean, dry, and dust free. Non-moving cracks >3/16-inch should be filled prior to application. For new construction, apply 650 WB Liquid Adhesive to a clean substrate at the rate of 350-400 ft²/gallon, being sure to stir the liquid adhesive prior to use. For reflooring, use 650 WB Liquid Adhesive.

Allow the liquid adhesive to dry to a slight tacky surface. The adhesive can be applied with brush or short nap roller. Do not multicoat or apply excess amounts.

Installation: An 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 and should be tied into TERM® Sill Moisture | Termite Barrier, with no gaps between the barrier sealants of the wood floor underlayment and the sill barrier.

Cut roll to desired length for the run. Remove the first 6-inches of the silicone coated release sheet to expose the adhesive face. Being careful to keep the underlayment squared up. Place the exposed adhesive bottom onto the subfloor. Unroll the underlayment, removing the release liner as you go. Smooth into place as you go, trying to avoid air blisters. If blisters do occur, they can be slit, and the membrane pressed flat.

With following rolls, be careful to butt against, but not overlap, the adjacent piece. Use pressure from a roller or otherwise to ensure that the barrier is well conformed to the subfloor.

surface. If thin set mortar is used, it is recommended to use a latex modified thin set.

Inspection and Repairs: If at completion any gaps are found between adjacent sealant areas, they should be filled with Detail Sealant PW™. If possible, fill the gaps at the end of the day, as the sealant can track before curing. Tool the sealant level with the underlayment to avoid tracking.

MAINTENANCE

No maintenance should be required unless the product has been damaged by construction or by some other activity.

LIMITATIONS

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

When properly installed, TERM® System 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.

Polyguard’s TERM® System 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 numerous other termite species worldwide, 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.

Purchaser is responsible for complying with all applicable federal, state, or local laws and regulations covering use of the product, including waste disposal.

STORAGE

All Polyguard products must be handled in a safe manner. Some products may 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.

SAFETY

SDS documents for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at (214) 515-5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided.

TECHNICAL SERVICES

Technical assistance, information and Polyguard’s products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc. P.O. Box 755, Ennis, TX 75120-0755 Sales: (615) 217-6061•Tech Support: (214) 515-5000 Email: archtech@polyguard.com Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
MEMBRANE THICKNESS	ASTM D 1000	40 mils
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 ft ² in 24 hrs 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	ICC AC 380 Compliance ICC ESR-3632
ELONGATION OF BARRIER SEALANT - PERCENT STRETCH BEFORE FAILURE	ASTM D 412	> 700%
PESTICIDE REPELLENCY (CHLORODANE, FIPRONIL, PERMETHRIN)	ASTM F 2130	0.0%
PERMEANCE TO MOISTURE / WATER VAPOR	ASTM E 96	0.03 Perms
WATER ABSORPTION	ASTM D 570	0.1%
LOW TEMPERATURE FLEXIBILITY	ASTM D146	No effect

PACKAGING	PART NUMBER	UNIT SIZE
TERM® WOOD FLOOR UNDERLAYMENT TERMITE BARRIER	TERMWFS37	37" x 73.3" roll
TERM® WOOD FLOOR UNDERLAYMENT TERMITE BARRIER Accessories:		
TERM® SILL MOISTURE TERMITE BARRIER	varies/size	66.7' roll
650 WB LIQUID ADHESIVE	650-5 WB ADH	5-gallon pail
*DETAIL SEALANT PW™	DETAIL SEALANT PW – SAU 20 OZ	20 sauges/ctn
*DETAIL SEALANT PW™	DETAIL SEALANT PW – 3 GAL	3-gallon pail

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