

TERM™ Flashing Barrier

EPA Establishment No. 89537-TX-1

Product Data Sheet



DESCRIPTION

TERM Flashing Barrier is a “peel and stick” barrier membrane used where waterproofing, energy sealing, and insect exclusion is needed.

TERM Flashing Barrier is applied where the horizontal concrete slab intersects with the exterior sheathing. This area is a frequent entry point for termites which have come up on the outside of the foundation wall.

ADVANTAGES

TERM Flashing Barrier is a non-structural pest barrier which, when properly constructed as part of the building envelope, acts as a barrier to **T**ermites and other insects, **E**nergy leaks, radioactive **R**adon gas, and **M**oisture.

DESCRIPTION OF COMPONENTS

TERM Flashing Barrier is a strong, pliable, self-adhesive sheet consisting of a 4 mil high density polyethylene film bonded to 36 mils of sealant. *TERM Flashing Barrier* is formulated for low temperature application down to 30°F (-1°C). *TERM Flashing Barrier* is wound on a disposable treated release sheet which can be peeled away to expose the adhesive face. Standard roll widths are 12” (.3m), 16” (.4 m), and 24” (.6 m). All rolls are 75’ (22.9 m) long.

TERM Flashing Barrier is the same composition as *TERM Seam and Window Barrier*. The only difference is in roll widths: *TERM Seam and Window Barrier* is available in widths between 4” and 8”, and *TERM Flashing Barrier* is available in widths between 12” and 48”.

Polyguard Shur-Tac Water-Base Liquid Adhesive is available where VOC concerns or limitations apply

Polyguard 650 LT Liquid Adhesive is a fast drying, high tack rubber-based adhesive used on horizontal and vertical surfaces at temperatures above 30°F (-1°C).

Polyguard 650 Mastic is asphalt mastic with a low solvent content. It is used to waterproof exposed edges of *TERM Barrier* products.

Polyguard Detail sealant is a solvent free, non-isocyanate adhesive sealant which is low VOC /HAPS free. It is formulated to be compatible with the *Polyguard TERM* barrier 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 in order to “minimize pest problems and exposure to pesticides”.

A key IPM element is; “Nonchemical pest preventative measures.....designed into the structure...”. TERM Barriers are nonchemical 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.

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 Material Safety Data Sheet (MSDS) before use. MSDS sheets can be obtained at our website www.polyguardproducts.com. Call *Polyguard* at 214-515-5000 if you have any questions.



The *650 LT Liquid Adhesive* is an industrial coating and would be harmful or fatal if swallowed. It is marked as red label because of low flash point.

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 liquid adhesive. *In confined areas, use adequate forced ventilation, fresh air masks, explosion-proof equipment and clean clothing.*

Preparatory Work

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 LT Liquid Adhesive* or *Shur-Tac Water-Base Liquid Adhesive* will assist the initial adhesion.

Application of Flashing Barrier:

Remove sharp protrusions such as concrete, mortar, or plaster.

Make sure the surface is clean, dust free, smooth, and dry. Adhesive surface of the tape should not be in contact with any caulks or sealants containing plasticizers or solvents. This includes most silicone or polyurethane sealants.

Apply liquid adhesive to all surfaces which will receive *TERM Flashing Barrier* at 250 – 300 ft²/gallon.

Cut pieces of flashing to length as needed and apply to substrate 30-60 minutes after liquid adhesive has been applied.

The flashing should be placed with its horizontal portion extending no closer than ½" from the edge of the horizontal.

Note that *TERM Flashing Barrier* has a split release liner to make application easier. Normally the wide part of the flashing will be adhered to the vertical wall, and the narrow part to the horizontal ledge. Most applicators find that removing the wide part of the release liner and adhering that part of the flashing to the vertical surface is the preferred.

Remove only the first 6-12 inches of release liner, and adhere the exposed adhesive face to the substrate. This will assist you with the correct positioning of the flashing. Where one piece of flashing is being placed next to another, overlap the flashing 2" minimum.

If the two pieces overlap vertically be sure to shingle them, with the lower piece or the piece closest to the exterior is overlapped by the other.

Roll flashing firmly into place with a hand roller.

Use *650 Mastic* or *Detail Sealant* to seal all top horizontal terminating edges on walls, pipes, and other protrusions.

Insect blocking and draining weep holes should be installed on the base course, and insect blocking vents should be installed every four courses above the base course. See [TERM Weep and Vent](#) for details.

Ultraviolet Protection:

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

Inspection and Repairs

Visually inspect *TERM Flashing Barrier* for tears, punctures, pinholes, air blisters and "fish mouths" where water or insects could gain entry. Make repairs by removing all damaged barrier so that only well bonded barrier remains. 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 |
|--|--|---|------------------|------------------------|
| TERM Flashing Barrier 12" x 75' – 3 rolls (225 lf) 18" x 75' – 2 rolls (150 lf) 36" x 75' – 1 rolls (75 lf) | Carton | 225 ft ² | 57 lb. | 36 cartons |
| Polyguard Shur-Tac Water Base Liquid Adhesive | 5 Gal Pail or 4-1 Gal Pail | 250 – 350 ft ² /gallon | 50 lb. 37 lb. | 36 Pails 54 Cartons |
| Polyguard 650 LT Liquid Adhesive | 5 Gal Pail or 4-1 Gal Pail | 250 – 350 ft ² /gallon | 45 lb. 31 lb. | 36 Pails 54 Cartons |
| Polyguard Detail Sealant | Carton with 12 30 oz. tubes | 1/8" bead – 293 lf/tube 1/4" bead – 73 lf/tube 3/8" bead – 30 lf/tube | 32 lb. | 25 Cartons |
| Polyguard 650 Mastic | 5 Gal Pail or Ctn. with 12 30 oz. tubes | 1/2" bead 65 LF/tube 1" bead 100 LF/gallon | 48 lb./Pail | 36 Pails 25 Cartons |

PHYSICAL PROPERTIES

| Typical Properties of TERM Flashing Barrier | | | |
|--|---|-----------------------------|-----------------------------|
| Property | Test Method | English | Metric |
| Color | -- | Red / white logo | Red / white logo |
| Barrier Thickness | ASTM D 1000 inch (mm) | .040 | 1.0 |
| Long Term Testing against Termite Penetration | ASTM D 1758-06 Texas A&M 4 Sites over 5 years vs controls | 100% effective | 100% effective |
| Elongation of Barrier Sealant – Percent Stretch Before Failure | ASTM D 412 | > 1000% | > 1000% |
| Resistance to Radioactive Radon Gas | Radon Reduction Technology Laboratory % reduction in radon gas diffusion | 97.1% | 97.1% |
| Pesticide Repellency (Chlorodane, fipronil, permethrin) | ASTM F 2130 | 0% | 0% |
| Permeance to Moisture and Water Vapor | ASTM E 96-B Grains/ft ² /hr/in HGF (grains/hr/m ²) | .035 | .023 |
| Water Absorption | ASTM D 570 | 0.1% | 0.1% |
| Tensile Strength – Film Backing | ASTM D 882 PSI / (N/mm ²) | 6500 | 44.82 |
| Tensile Strength – Barrier Composite | ASTM D 412 (Modified Die C) PSI / (N/mm ²) | 325 | 2.24 |
| Peel Adhesion | ASTM D 1000 lb/in width / (N/mm) | 10.0 | 1.75 |
| Overlap Bond | ASTM D 1000 lb/in width / (N/mm) | 8.0 | 1.4 |
| Low Temperature Flexibility | ASTM D 146 180° bend over 1" mandral at -25°F (-32°C) | No cracking or delamination | No cracking or delamination |
| Barrier Puncture Resistance | ASTM E 154 (Blunt Instrument) lb / (N) | 50 | 182 |

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.