

TRM Particle Barrier
Termite Treatment for Exposed Concrete Perimeter
For New and Existing Structures



DESCRIPTION

TRM Particle Barrier Termite Treatment for Exposed Perimeter is a non-chemical particle barrier consisting of quartz particles exactly sized between 8 and 16 mesh.

TRM Particle Barrier was developed in 2005 and has been tested at Texas A&M's Department of Urban and Structural Entomology.

Particulate termite barriers have been widely and successfully used in other parts of the world since the 1980s. However, they were not available in the mainland United States.

The principle behind particle barriers is simple and has been supported with research, such as, Ebeling and Pence (1957), Su et al. (1991), Su and Scheffrahn (1992), Yates et al. (2003), and Keefer et al. (2013).

COMPONENTS

Polyguard's particle barrier consists of quartz particulates exactly sized to block both Formosan and Eastern Subterranean species.

ADVANTAGES

TRM Particle Barrier, when installed and maintained around the building perimeter, can drastically reduce the quantity of termiticides needed to protect the structure.

Polyguard has registered our barrier manufacturing facility with the Environmental Protection Agency. EPA, along with state agencies, regulate pesticides. Polyguard's TRM barriers are classified by the EPA as "devices" or "barriers" since they contain no toxic components.

Termites trying to get into a structure cannot penetrate the TRM Particle Barrier. It is also important to note that termites are unable to regain contact with the soil to get moisture.

The picture below is from a YouTube video taken over a 19-day period. Termites came out of the home to obtain moisture. The termites were unable to penetrate the particle barrier.



Pointing to termites blocked from leaving a structure for moisture.

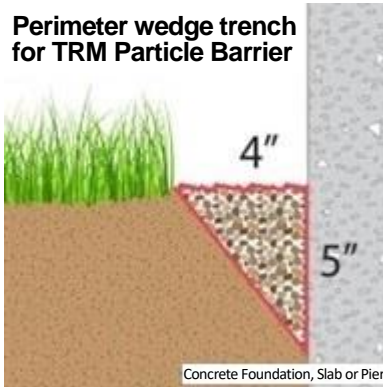
This can be seen at the 0.34 minute point of the video

TRM Non-Chemical Termite Barrier – Physical Exclusion at Bath Traps Using Stone Particles.

Termites can't move or crawl between the exactly sized quartz particles, which are too big to move and too small to crawl between.

INSTALLATION OF PARTICLE BARRIER TO PROTECT EXPOSED CONCRETE PERIMETER

Perimeter wedge trench for TRM Particle Barrier



Perimeter TRM Particle Barrier is installed in a wedge-shaped trench.

Here is a link to an explanation video:

[TRM® Sustainable Pest Barriers - Particle Barrier - Non-Chemical Termite Barrier - YouTube](#)



Aim Trencher



Fire Trencher



Pull Trencher



Until step is level with soil

1. Dig a wedge-shaped trench, minimum 4" across the top, and 5" deep down the vertical concrete face. These distances are plus or minus 1" due to the difficulty of digging exactly. The trench should be installed wherever vertical concrete surfaces of the structure are exposed around the entire perimeter.
2. For most soils, a trenching tool designed to create a trench of the correct depth and width, can be used, with a significant reduction of installation effort. Pictured below is a sequence showing a trenching tool creating a properly sized wedge.
3. Hose or clean the vertical face of the concrete so the surface will be clean of mud and debris.
4. Fill the trench to the grade level with TRM Particle Barrier.
Perimeter particle barrier should be inspected (and repaired if needed) by a licensed pest management professional at least once a year, or more frequently if the PMP judges it to be necessary.

Inspection and Repairs

Note that regular inspection (required yearly, suggested quarterly) and repair (if necessary) of the TRM Particle Barrier is mandatory. The following are some things which can compromise the barrier:

- Animals digging
- Children playing
- Landscaping or construction activities which displace the barrier or cover it with dirt
- Overgrowth by vegetation
- Debris or mulch

If inspection reveals that the particle barrier has been compromised, particle barrier may be re-applied to the trench so that requirements of the installation instructions are met.

See *Product Data Sheet* for more product information on our website at www.polyguard.com



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Install Guide: TRM Particle Barrier on Exposed Perimeters 12162024