

SECTION 02282

TERMITE CONTROL WITH PARTICLE BARRIER

This guide specification has been prepared by Polyguard Products Inc., in printed and electronic media, as an aid to specifiers in preparing written construction documents for termite control using particle barriers. Polyguard® TERM™ Particle Barrier consists of selected quartz particles which have been sorted and sized to block prevalent termite species in the project area. When applied according to label instructions termites will be unable to penetrate through the barrier to reach cellulose based materials in the structure.

Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences may contain choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices at 214.515.5000.

Polyguard Products Inc. reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer's web site and/or in printed matter as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.01 SUMMARY:

- A. Provide Polyguard TERM Particle Barrier for primary termite control, as specified.
B. Limits of termite treatment are as follows:
1. Polyguard TERM Particle Barrier product application will be treated at exposed ground level vertical concrete perimeter, bath traps, and plumbing penetrations.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 02900 – Planting
B. Section 06110 – Rough Carpentry
C. Section 10290 – Pest Control

1.03 REFERENCES

- A. U.S. Environmental Protection Agency:
1. Pesticide Registration Manual – Chapter 13 - Devices

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
B. Submit manufacturer's product data and application instructions.
C. Sustainable Design Submittals:
1. Submit invoices and documentation from manufacturer of the amounts of materials and content for products specified.

2. Submit invoices and documentation showing manufacturing locations and origins of materials for products manufactured and sourced within 500 miles of project location.

D. LEED Submittal:

1. LEED, MR Credit 5 – Regional Materials: Provide documentation for cost of materials or products that have been extracted, harvested, or recovered and also manufactured within 500 miles of project site.
 - a. If only a portion of the materials or products is extracted, harvested, or recovered and manufactured locally, then only provide percentage by weight for credit value.
2. LEED, EQ Credit 5 – Indoor Chemical and Pollutant Source Control: Provide documentation of testing of ability to physically block access by termites into the structure, and provide details of long term successful use in areas of the U.S., thus reducing future usage of pesticides
3. LEED, ID Credit 1 - Innovation
 - 1.1 Provide documentation of testing supporting the environmental and health benefits obtained through the physical blocking of insects and other pests from entry to the structure, therefore reducing the need for application of pesticides over the life of the structure.
4. LEED-EB Credit 3.9 – Indoor Integrated Pest Management
 - 1.1 Provide documentation of testing of ability to physically block access by termites into the structure, and provide details of long term successful use in areas of the U.S., thus reducing future usage of pesticides
5. LEED for Homes Credit SS 5.e.ii – Pest Control Alternatives
 - 1.1 Provide documentation of testing of ability to physically block access by termites into the structure, and provide details of long term successful use in areas of the U.S., thus reducing future usage of pesticides

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Installer must be a pest control operator who is licensed by the jurisdiction where the material is being installed.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, EPA Establishment Number, and instructions for installation.
- B. Store materials in a dry area completely covered to protect from moisture.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Product should be kept dry

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Polyguard Products Inc. P.O. Box 755 Ennis, TX 75120-0755; Phone: 214-515-5000
Fax: 972-875-9425 Email: info@polyguardproducts.com. EPA Establishment Number 89537-TX-001

2.02 MATERIALS

- A. Polyguard® TERM Particle barrier consists of selected quartz particles which have been sorted and sized to block prevalent termite species in the project area.

PHYSICAL PROPERTIES

Typical Properties of TERM Foundation Barrier	
Property	Typical Results
Fineness Module	3.83
Weighted Particle Size	1.72
Hardness – Mohrs Hardness Scale	> 6

2.03 ACCESSORIES

A. TERM Penetration Collar:

1. A roll of 30 mil polyethylene collar material, 4” in width, designed to be cut to length in the field and bent to form a rectangle which fits flush against the concrete floor around the slab penetrations and within a sill plate cutout. The TERM Penetration Collar is then stapled at either end to hold it in place within the sill plate cutout. TERM Particle Barrier is then poured around the slab penetrations within the collar to a 4” depth.

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS AND PRODUCT LABEL

- A. Polyguard TERM Particle Barrier is to be installed only by a pest management professional who is:
- i. Licensed to install pest control products within the jurisdiction where the project is located.
 - ii. Trained by Polyguard Products in the proper installation of the TERM Particle Barrier.
- B. Compliance: Comply with requirements as listed on the Polyguard TERM Particle Barrier U.S. EPA label, guide specification, and product data sheet.

3.02 INSTALLATION OF BATH TRAP BARRIER TREATMENT

- A. Remove all wood form material from the walls of the bath trap
- B. If the bath trap opening is less than 4” deep, remove sufficient earth to obtain 4” depth.
- C. Prepare vertical wall surface of the bath trap by cleaning off and mud, dirt, or residual concrete. Clean the wall.
- D. Fill the bath trap to the level of the top of the slab. There should be a minimum of 4” thickness of particles.

3.03 INSTALLATION OF SLAB PENETRATION BARRIER TREATMENT

- A. Top of slab must be clean, smooth, and dry and must be clear of excess concrete.
- B. Cut out sill plate to make a rectangular opening with minimum clearance of 1” between the penetrations and the front, back, and sides of the sill plate opening.
- C. Cut TERM Penetration Collar to length. Length should be 4” greater than the total length of back side, right end, front side, and left end of the rectangular sill plate opening.

- C. Form TERM Penetration Collar into a rectangular shape to fit within the sill plate opening. Make sure that collar is flush to the concrete slab; adhere if necessary. Collar should be stapled to the left end and right edges of the sill plate.
- D. Fill TERM Penetration Collar with particle barrier.

3.04 INSTALLATION OF PERIMETER BARRIER APPLICATION

- A. TERM Particle Barrier should be installed wherever, on the outside perimeter of the structure that vertical concrete comes in contact with earth.
- B. TERM Particle Barrier perimeter treatment should be installed after completion of all landscaping activities. Landscaping can cause breaching of the particle barrier.
- C. Dig a 4" x 4" trench around the entire perimeter of the structure.
- D. Clean the vertical face of the concrete so the surface will be completely clean.
- E. Hose any residual dirt from the vertical face if necessary.
- F. Fill the trench to grade level with Polyguard TERM Particle Barrier.

END OF SECTION

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