Proper Application of Preconstruction Termite Treatments

A Guide for Builders, Pest Management Professionals, and Homeowners

B. 18 piers treated at about 2 gallons per pier = **36 gallons**.

**Note:** The gallon approximation is derived from treating the inside 16” masonry void at 2 gallons per 10 linear feet and the soil adjacent to the pier (16”+16”+8”+8”) at a rate of 4 gallons per 10 linear feet: This equals 1.86 gallons or approximately 2 gallons.

This example is based on the most common practice for treating crawlspace homes. However, it is recommended that only the masonry voids be treated at this point in construction. The soil adjacent to the walls and piers needs to be treated at a later point in construction. This would prevent disturbance of treated soil by workers during construction as well as unnecessary pesticide exposure to workers on site.

**Trip 2**
Treat garage slab and attached porch.

A. Attached slab - 24 feet of expansion joint treated at 4 gallons per 10 linear feet = **9.6 gallons** (approximately 10 gallons).

B. Garage slab - 20’x20’ = 400 ft² treated at 1 gallon per 10 ft² = **40 gallons**.

C. Garage expansion joint = 20’+20’+20’ = 60 linear feet treated at 4 gallons per 10 linear feet = **24 gallons**.

**Trip 3**
Treat soil adjacent to outside foundation wall after all landscaping activities are complete.

A. 20+30+26+40+10+10+20 = 176 linear feet treated at 4 gallons per 10 linear feet = **70.4 gallons** (approximately 70 gallons).

**TOTAL FOR JOB = 108+74+70 = 252 GALLONS.**

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**PRETREAT CHECKLIST**

- Make sure the company hired to do the pest control work has a valid business license issued by the Virginia Department of Agriculture and Consumer Services (VDACS).

- Make sure the technician performing the pretreatment has a valid pesticide applicator certificate issued by VDACS.


- Be familiar with the terms and conditions of the pretreat contract.

- During the construction phase, up to and including final grading, the builder and PMP must maintain timely communications. PMPs need adequate notice in order to ensure proper soil treatments around foundations, walls, piers, under slabs, etc.

- Be aware of soil conditions at the job site. Liquid termiticide labels prohibit the application of the product if soils are frozen or saturated.

- For further information on termite treatments see the following Virginia Tech Extension publication: [www.ext.vt.edu/pubs/entomology/444-500/444-500.html](http://www.ext.vt.edu/pubs/entomology/444-500/444-500.html).

[For more information, please contact the Virginia Department of Agriculture and Consumer Services, Office of Pesticide Services at: 804-371-6558](http://www.vdacs.virginia.gov

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There are two basic forms of construction with specific pretreat instructions:

1. Poured Slab - A proper termite pretreatment requires the PMP to make at least two, sometimes three, trips to the job site. All termiticide labels require the application of 1 gallon of dilute termiticide per 10 square feet of slab area. If the fill is gravel or other coarse aggregate, additional termiticide is required. Additional termiticide is also required if there are bath traps or other openings in the slab.

Pretreats include structures built adjacent to the foundation, such as porches and patios. Ideally, the builder should notify the PMP before any additions are poured and after final backfill is completed. If additions are not treated before pouring, the slab area should be drilled next to the foundation and treated when the perimeter is treated.

Recommended Treatment for Poured Slab Construction with Surrounding Block Wall and 1-Foot Interior Fill

Trip 1
A. Treat soil under main slab before concrete is poured. 50' x 30' = 1,500 ft² + 20' x 10' = 200 ft². Total = 1,700 ft² treated at 1 gallon per 10 ft² = 170 gallons.

B. Treat soil under garage slab before concrete is poured. 20' x 20' = 400 ft². Total = 400 ft² treated at 1 gallon per 10 ft² = 40 gallons.

C. Treat inside foundation wall (expansion joint under main slab). 30' + 50' + 40' + 20' + 10' + 10' + 20' = 180 linear feet treated at 4 gallons per 10 linear feet = 72 gallons.

D. Treat soil in the garage expansion joint (three sides, in front, have no block wall and only a garage door). 20' + 20' + 20' = 60 linear feet treated at 4 gallons per 10 linear feet = 24 gallons.

E. Treat masonry voids (hollow block wall). 30' + 50' + 40' + 20' + 10' + 10' + 20' + 20' + 20' = 220 linear feet treated at 2 gallons per 10 linear feet = 44 gallons.

Trip 2
A. Treat soil under expansion joint of rear attached porch slab before additional concrete is poured. 24 feet treated at 4 gallons per 10 linear feet = 9.6 gallons (approximately 10 gallons).

Note: This area may also be treated on trip 3, but the attached slab would have to be drilled to allow the chemical to be applied in the proper location.

Trip 3
Treat soil adjacent to the outside foundation wall. This should be done after all sod and landscaping activities are complete. 20' x 30' + 26' x 20' + 10' x 10' = 176 linear feet treated at 4 gallons per 10 linear feet = 70.4 gallons (approximately 70 gallons).

TOTAL FOR JOB = 350 + 10 + 70 = 430 GALLONS.

2. CRAWLSPACE AND/OR BASEMENT FOUNDATIONS - A proper termite pretreat of a crawlspace or basement home requires the placement of a continuous chemical barrier on both sides of the foundation (to the top of the footer or to a minimum of 4' depth). The application rate is calculated as 4 gallons per 10 linear feet. If the foundation is made of hollow blocks, an additional 2 gallons per 10 linear feet is added for application inside the hollow blocks. Other structural elements of the building must also receive treatment in the soil surrounding them (support piers, sewer lines, plumbing, and other utilities).

Recommended Treatment of Crawlspace Construction

Trip 1
A. Treat inside foundation wall and piers.

A. Inside foundation wall 30' + 50' + 40' + 20' + 10' + 10' + 20' = 180 linear feet treated at 4 gallons per 10 linear feet = 72 gallons.