

SECTION 02280

SOIL TREATMENT

PART 1 GENERAL

NOTE TO SPECIFIER: Verify the termiticide application to the soil will not affect any water reservoir systems on or next to the project site.

1.01 SUMMARY

- A. Section Includes: Termiticide application to soil under new buildings as indicated on drawings and specified in this section.
- B. Use of chlordane, heptachlor, aldrin, dieldrin and chlorpyrifos class of chemicals are not allowed.
- C. Related Sections:
 - 1. 02200 - Earthwork.
 - 2. 03300 - Cast-In-Place Concrete.
 - 3. 07190 - Vapor/Radon Barrier.

1.02 SUBMITTALS

- A. Submit the following for review before starting work:
 - 1. Product data, including manufacturers specifications, chemical analysis, with recommended dilution, application directions, and safety precautions.
 - 2. Sample copy of applicator's warranty for review.
 - 3. Applicator's experience evidence with copies of current local and state licenses and current Certified Operator-in-Charge certificate.

1.03 QUALITY ASSURANCE

- A. Work shall be done by a bonded Contractor whose principal business is pest control and termite treatment and can show evidence of at least 5 years of successful operation in this field.

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B. Field Samples:

1. Test samples of the mixture of the concentrate and water will be taken by the Board contracted Testing Laboratory.
2. If sample solution indicates noncompliance with the manufacturer's application requirements, the Contractor shall pay for the initial test performed by the Board, any subsequent retesting required by the Board, and reapplication of soil treatment solution.

1.04 PROTECTION

- A. To avoid surface flow or overspray of toxicant from application site, do not apply soil poisons when soil or fill is excessively wet or after heavy rains.
- B. Unless treated areas are to be immediately covered, take precautions to prevent disturbance of treatment by human or animal contact.
- C. Comply with applicable laws, codes, ordinances of Federal, State, and local regulatory agencies having jurisdiction over use of soil poisons.
- D. Provide warning signs and instruct workers to use protective measures for their safety.

1.05 WARRANTY

- A. Upon completion of soil treatment and as a condition of substantial completion, furnish the Board with a written warranty, from the applicator, which shall provide that:
 1. Application was made at concentration, rates, and methods complying with these specifications.
 2. Effectiveness of treatment is warranted for not less than 5 years without additional cost to the Board, by means of a 5-year repair and replacement bond.
 3. Upon evidence of subterranean termite activity, retreat area at no additional charge to the Board. Additional treatment shall be sufficient to prevent termites from attacking building or its contents.
 4. Upon occurrence of damage to building or to its contents within warranty period, retreat soil and

- replace damage at no cost to the Board.
5. Warranty bond shall be drawn in favor of the Board, successor, or assigns and shall be non-cancelable by all parties to the contract except the Board.

PART 2 PRODUCTS

2.01 MATERIALS

A. Florida Registered Soil Termiticides:

1. Biflex, bifenthrin, FMC Corporation.
2. Talstar, bifenthrin, FMC Corporation.
3. Demon TC, cypermethrin, Zeneca.
4. Prevail, cypermethrin, FMC Corporation.
5. Tribute, fenvalcrate, Aventis Environmental Science.
6. Termidor, fipronil, Aventis Environmental Science.
7. Premise, imidicloprid, Bayer Corporation.
8. Dagnet SFR, permethrin, FMC Corporation.
9. Prelude, permethrin, Zeneca.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not proceed with the work of this section until conditions detrimental to the proper and timely completion of the work have been corrected in an acceptable manner.

3.02 APPLICATION

- A. Before mixing concentrate and water as recommended by the manufacturer for specific application and conditions, contact the Board 48 hours in advance.
- B. Apply termiticide mixture to the following:
 1. Soil and earth that will be covered by or lie next to buildings.
 2. Masonry foundations.
 3. Areas around pipes and conduits penetrating slabs on fill to provide a lethal barrier to subterranean termites.

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- C. Apply termiticide mixture after subgrade has been made ready for placement of any floor slab vapor barrier, and as soon as practical before placement of concrete slabs and caps on masonry piers. Piling, pile caps, grade beams, foundation walls, and below grade waterproofing shall have been completed.
- D. Apply at least 12 hours before placement of concrete slabs and during normal working hours to be subject to inspection. Notify applicator at least 24 hours before application of termiticide mixtures will be completed.
- E. Soil Conditions: Apply termiticide mixtures when moisture content soil is sufficiently low to allow uniform distribution of chemical throughout specified areas.
- F. Application Under Slabs on Fill:
 - 1. Apply termiticide mixtures uniformly to all areas beneath concrete slabs-on-grade, including beneath walkways and entrance platforms and beneath sidewalks within 5 feet of buildings.
 - 2. A minimum of 1 gallon of termiticide mixtures shall be uniformly applied to each 10 square feet of area to be treated.
 - 3. Ground areas beneath concrete slabs-on-grade and paving abutting building slabs shall be similarly treated for a distance not less than 3 feet from building.
- G. Application Along Foundation Walls, Pipes, and Conduits:
 - 1. Treat critical areas along both sides of exterior and interior foundation walls, columns, and around utility pipes, conduits, ducts, and other similar items extending through soil beneath, and next to new construction, to a depth of 1 foot in a strip 6 inches wide, at a rate of 4 gallons of termiticide mixture to each 10 linear feet.
 - 2. Mix chemical with soil as it is placed against walls and utility lines.
 - 3. Apply at least 1 gallon of termiticide mixture around each pipe.
- H. Application to Masonry Foundation Walls: Treat voids of unit masonry foundation walls, top of course occurring at or just above grade level, with additional treatment of not less than 2 gallons of chemical for each 5 linear feet.

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- I. Retreatment of Disturbed Soil: Retreat soil surfaces disturbed after treatment and before placement of slabs and covering structures.

3.03 CLEAN UP

- A. Improper disposal of pesticide, spray mixture, or rinsate is a violation of federal law. Comply with manufacturer's instructions for disposal of these materials and empty containers. Do not allow supplies of chemicals to remain on site unattended.

END OF SECTION