

## SECTION 02362

### TERMITE CONTROL

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. **Section Includes:** Soil treatment with termiticide and bait-station system for termite control.
- B. **Related Sections:**
  - 1. Section 02200 - Earthwork: For excavating, backfilling and compacting.
  - 2. Section 03300 - Cast-in-Place Concrete.

##### 1.2 SUBMITTALS

- A. **Product Data:** Submit manufacturer's technical data and application instructions for treatment chemical and type employed.
- B. **Test Reports:** Submit regulatory agency approval reports.
- C. **Manufacturer's Installation Instructions:** Indicate caution requirements.
- D. **Manufacturer's Certificate:** Submit certification that toxicants meet or exceed U.S. Environmental Protection Agency (EPA) regulations for termiticides.
- E. **Soil Treatment Application Report:** After application of termiticide is completed, submit report for Owner's record information, including the following:
  - 1. Date and time of application.
  - 2. Moisture content of soil before application.
  - 3. Brand name and manufacturer of termiticide.
  - 4. Quantity of undiluted termiticide used.
  - 5. Dilutions, methods, volumes, and rates of application used.
  - 6. Areas of application.
  - 7. Water source for application.
- F. **Bait Station System Application Report:** Submit report for Owner's record information, including the following information:
  - 1. Plan drawing showing number and locations of bait and monitoring stations.
  - 2. Dated report for each monitoring and inspection occurrence indicating level of termite activity, procedure, and treatment applied before time of Substantial Completion.
  - 3. Brand name and manufacturer of termiticide.
  - 4. Quantities of termite bait used.

##### 1.3 QUALITY ASSURANCE

- A. **Manufacturer's Instructions:** In addition to requirements of these specifications, comply with manufacturer's instructions and recommendations for preparing substrate and application.

- B. **Pest Control Operator:** Engage a professional pest control operator who is licensed and bonded according to regulations of governing authorities to apply soil treatment solution.
- C. **Regulatory Requirements:** Use only termiticides that bear a federal registration number of the EPA and are approved by local authorities having jurisdiction.
- D. **Coordination:** Coordinate work so that vapor retarder can be installed immediately after application of termite protection.
- E. **Source Limitations:** Obtain termite control products through one source.

#### 1.4 DELIVERY, STORAGE AND HANDLING

- A. **Delivery:** Deliver products to the project site with each container labeled by the manufacturer giving manufacturer's name, type of chemical, concentration, and dilution recommendations.
- B. **Storage:** Chemicals stored on the job-site shall be protected from weather and physical damage to containers, including labels, and secured to prevent theft and vandalism.
- C. **Handling:** Exercise care to prevent spillage and misapplication of treatment chemicals. Chemicals shall be job-mixed in a measured tank to maintain control of chemical concentration.

#### 1.5 JOB CONDITIONS

- A. **Sequence:** Apply soil treatment solution after excavating, filling and grading operations are completed at new construction areas, except as otherwise required in construction operations. Apply solution before vapor barrier is placed. Install bait-station system after all construction and landscaping is completed.
- B. **Weather:** To insure penetration, do not apply soil treatment to frozen or excessively wet soils or during inclement weather.

#### 1.6 WARRANTY

- A. **Warranty:** Treatment shall be performed by a licensed and bonded applicator in accordance with requirements of the Louisiana Structural Pest Commission, and shall be guaranteed in writing for a period of five (5) years from time of Substantial Completion. Limits of insurance shall be minimum \$50,000.00, subject to annual renewal thereafter. Warranty shall state concentrations and rates of application used.
  - 1. If Subterranean or Formosan termite activity is discovered in or under buildings during the Warranty period, upon notification by the Owner, the applicator shall promptly and without expense to the Owner re-treat the soil, using means acceptable to the Owner, and make good all damage caused by Subterranean or Formosan termite activity, up to the specified limits of insurance. Furnish Owner with 2 copies of Warranty.

### PART 2 - PRODUCTS

#### 2.1 SOIL TREATMENT SOLUTION

- A. **General:** Materials shall meet the requirements of the Louisiana Structural Pest Commission and the Environmental Protection Agency.

- B. **Treatment Chemicals:** Use an emulsible concentrate termiticide for dilution with water, specially formulated to prevent infestation by termites. Only soil treatment materials which bear Federal registration number of U.S. Environmental Protection Agency and acceptable to authorities having jurisdiction shall be used. Fuel oil will not be permitted as a diluent. Provide a solution consisting of one of following chemicals:
  - 1. Chlorpyrifos (Tradename Dursban TC), 1.0 percent in water emulsion.
  - 2. Permethrin (Tradename Dragnet, Torpedo), 0.5 percent in water emulsion.
- C. **Working Solution:** Provide water emulsion solution with concentrations according to label directions.

## 2.2 BAIT TREATMENT SYSTEM

- A. **Provide bait stations** based on the dimensions of building perimeter, according to manufacturer's EPA-Registered Label for product and manufacturer's written instructions. Provide the following product:
  - 1. Hexaflumuron: Sentricon System, Recruit II; DowElanco.

## PART 3 - EXECUTION

### 3.1 APPLICATION OF SOIL TREATMENT

- A. **General:** Provide complete "pre-construction" soils treatment under and adjacent to new construction to provide uniform toxic barrier in all routes of termite entry. Treatment shall be applied under building slab and shall extend a minimum of five feet beyond slab.
  - 1. Provide complete "post-construction" soils treatment under and adjacent to new construction to provide uniform toxic barrier in all routes of termite entry.
- B. **Surface Preparation:** Remove all wood and other foreign matter, which could decrease effectiveness of treatment on areas to be treated. Loosen, rake and level soil to be treated, except previously compacted areas under slabs and foundations. Toxicants may be applied before placement of compacted fill under slabs, if recommended by toxicant manufacturer.
  - 1. Do not begin treatment work until all preparations for slab treatment have been completed, but before vapor barrier membrane is placed.
  - 2. Do not apply chemical solution when surface water is present and when precipitation is expected before covering construction can be completed.
- C. **Apply termiticide** in accordance with manufacturer's recommendations.
- D. **Post signs in areas** of application to warn workers that soil termiticide treatment has been applied. Remove signs when areas are covered by other construction.
- E. **Contamination Prevention:** Do not apply chemicals until location of air ducts, vents, water, and sewer lines are known and identified. Take extreme caution to avoid contamination of these structural elements and airways.
- F. **Reapply soil treatment solution** to areas disturbed by subsequent excavation, landscape grading, or other construction activities following application.

### 3.2 INSTALLATION OF BAIT-STATION SYSTEMS

- A. **Place bait stations** according to the EPA-Registered Label for the product and manufacturer's written instructions, in areas that are conducive to termite feeding

and activity including near irrigation sprinkler heads, along driplines of roof overhangs without gutters, and other sites and locations around the existing building as determined licensed Installer.

### 3.3 PROTECTION

- A. **Protection:** Allow no disturbance of treated soil between application of toxicant and placing of concrete.
  - 1. Protect neighboring property, water sources, and personnel on site from contamination.
    - a. Use anti-backflow equipment or procedures.
    - b. Take extreme care to avoid runoff. Do not treat soil that is water-saturated or frozen.

### 3.4 CLEAN-UP

- A. **Upon completion of treatment work,** remove from the premises all trash and debris, including wood and other foreign materials removed during preparation, related to treatment.

END OF SECTION