

## SECTION 31 31 16

### TERMITE CONTROL

#### PART 1 GENERAL

##### 1.1 WORK INCLUDED

- A. Soil treatment below slabs on grade for subterranean insects.
- B. Soil treatment at foundation perimeter, for subterranean insects.

##### 1.2 REFERENCES

- A. Environmental Protection Agency (EPA)
  - 1. EPA - Federal Insecticide, Fungicide and Rodenticide Act.

##### 1.3 QUALITY ASSURANCE

- A. Materials: Provide certification that toxicants conform to requirements of authority having jurisdiction.
- B. Material Packaging: Manufacturer's labels and seals identifying content.

##### 1.4 REGULATORY REQUIREMENTS

- A. Conform to applicable requirements for application licensing and authority to use toxicant chemicals.

##### 1.5 SUBMITTALS

- A. Product Data: Submit through General Contractor to Architect.
  - 1. Indicate toxicants to be used, composition by percentage, dilution schedule, and intended application rate.
  - 2. Submit manufacturer's application instructions.

##### 1.6 PROJECT RECORD DOCUMENTS:

- A. Accurately record moisture content of soil before treatment, date and rate of application, areas of application, diary of meter readings and corresponding soil coverage.

##### 1.7 WARRANTY

- A. Provide five year warranty for material and installation. Cost for the five year warranty period will be included with the warranty.

- B. Warranty: Cover against invasion or propagation of subterranean termites, damage to building or building contents caused by termites; repairs to building or building contents so caused.
- C. Inspect work annually and report in writing to Architect.
- D. Owner reserves right to renew warranty for an additional five years.
- E. Warranty period will not begin until date of Substantial Completion.
- F. If termite treatment contract exists for existing building, coordinate contract of new addition with existing termite treatment contractor so as not to void existing warranty.

## PART 2 PRODUCTS

### 2.1 MATERIALS

- A. Toxicant Chemical: Water based emulsion, uniform composition, synthetic dye to permit visual identification of treated soil.
- B. Approved chemicals.
  - 1. Bifenthrin - Trade name Baseline, 1% emulsion.
  - 2. Cypermethrin - Pyrethroid, trade name Demon TC, 1%.
  - 3. Imidacloprid - Trade name Premise 75, .05% to .1%.
  - 4. Cyano - Trade name Tirbute, .5% to 1%.
  - 5. Other chemicals may be used as approved by appropriate regulatory agencies.
- C. All instructions on the manufacturers label shall be closely followed and all state and federal laws strictly obeyed.

### 2.2 MIX DILUTION

- A. Dilute and mix toxicant chemical to manufacturer's instructions.

## PART 3 EXECUTION

### 3.1 INSPECTION

- A. Verify the soil surfaces are unfrozen, sufficiently dry to absorb toxicant, ready to receive treatment.
- B. Beginning of application means acceptance of soil condition.

### 3.2 APPLICATION

- A. Apply toxicant within 12 hours before installation of vapor barrier under slab-on-grade or finish grading outside foundation walls. If rain occurs after initial treatment and before installation of vapor barrier, re-application of termite treatment will be required.
- B. Apply toxicant to soil at the following rates, using metered applicator:
  - 1. Under floor slabs-on-grade: One gallon per 10 sq. ft.
  - 2. Both sides of exterior foundation wall: Note-Treat exterior side of foundation walls and/or turn-down slab edges prior to topsoil placement.
    - a. Concrete: Four gallons per 10 lineal feet, to depth of one foot.
    - b. Masonry: Four gallons per 10 lineal feet for each foot of foundation depth.
  - 3. Two gallons per lineal foot at foundation penetrations.
- C. Apply as a coarse spray to ensure uniform distribution.
- D. Coordinate soil treatment at foundation perimeter with finish grading and landscaping work to avoid disturbance of treated soil. Retreat disturbed treated soil.

### 3.3 RE-TREATMENT

- A. If inspection identifies the presence of termites, retreat soil and retest.
- G. Use same toxicant as for original treatment.

### 3.4 TREATMENT CONFORMATION

- A. Colored Dye to be added to treatment mix for visual inspection.
- B. Keep application tickets on site for Architect's review. If long distance observation is made by Architect by viewing photos sent by email, forward treatment tickets to Architect for confirmation.

END OF SECTION