

**SECTION 31 31 00**

**SOIL TREATMENT**

**PART 1 - GENERAL**

**1.01 SCOPE:**

- A. Provide all of the labor, materials, equipment, and services required to complete the soil poisoning work.
  - 1. Prevent termite, carpenter ant and other wood destroying insect infestation.

**1.02 QUALITY ASSURANCE:**

- A. In addition to requirements of these Contract Documents, comply with the manufacturer's instructions and recommendations for work, including preparation of substrate and application.
- B. The applicator shall be a company specializing in soil treatment for insect control with a minimum of one year of documented experience.
- C. Engage a professional pest control operator, licensed in accordance with regulations of governing authorities for application of soil treatment solution.
- D. Work shall conform to rules and regulations of the State of Tennessee as issued under the Pest Control Law, Chapter 14, Public Acts of 1955.
- E. Products shall conform to the requirements of the U.S. Environmental Protection Agency (EPA) regulations for insecticides.

**1.03 SUBMITTALS:**

- A. Prior to application, submit for review by the Architect the following:
  - 1. Indicate toxicant to be used, composition by percentage, dilution schedule, and intended application rate.
  - 2. Certification that products used comply with U.S. Environmental Protection Agency (EPA) regulations for insecticides.
- B. For project record documents: Submit data showing moisture content of the soil before treatment, date and rate of application, areas of application, diary of meter readings and corresponding soil coverage.

**1.04 GUARANTEE:**

- A. Form of guarantee: The guarantee shall be in form acceptable to the Architect and shall be drawn in favor of the Owner, his successor, and his assigns.
- B. Provisions required:
  - 1. The soil treatment has been performed in accordance with all requirements of the Contract Documents.
  - 2. The effectiveness of the soil treatment against insect infestation shall continue for not less than 5 years after the Date of Substantial Completion.
  - 3. All evidence of re-infestation within the guarantee period shall be treated, without additional cost to the Owner.
  - 4. Complete performance of the guarantee is assured by Surety acceptable to the Owner.
- C. Performance guarantee: Treat, in accordance with all terms of the guarantee, all evidence of insect

infestation which is discovered within the guarantee period.

**PART 2 - PRODUCTS**

**2.01 SOIL TREATMENT SOLUTION:**

- A. Use an emulsified concentrate insecticide for dilution with water, specially formulated to prevent infestation by insects. Fuel oil will not be permitted as a diluent.
- B. Product shall physically bear a federal registration number of the EPA and shall be approved by local authorities having jurisdiction.

**PART 3 - EXECUTION**

**3.01 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 conditions.
- C. Remove 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.

**3.02 APPLICATION:**

- A. Apply toxicant prior to installation of vapor barrier under slab-on-grade or finish grading outside of foundation walls.
- B. Allow not less than 12 hours for drying after application before beginning concrete placement or other construction activities.
- C. Post signs in the areas of application warning workers that soil poisoning has been applied. Remove signs when areas are covered by other construction.
- D. Reapply soil treatment solution to areas disturbed by subsequent excavation or other construction activities following application.
- E. Application areas shall include, but not be limited to:
  - 1. Within the building area, with or without slabs-on-grade
  - 2. Along interior sides of all foundation walls.
  - 3. Where exterior is abutted by concrete slabs, asphalt, or other permanent surfacing, treat exterior sides at the same rate.
  - 4. Outside building perimeter in a strip at least 2'-0" wide, under porches, areaways, aprons, pads, stair landings or paved extensions.
  - 5. At pavement abutting structures, limit treatment under pavement at a 2'-0" wide strip adjacent to structure.
  - 6. In absorbent soil or fill (sand, sand and gravel mix, gravel) increase the application rate as recommended by the manufacturer.
  - 7. At hollow masonry foundations, treat the voids by pouring directly into the hollow spaces.
  - 8. At expansion joints, control joints, and areas where slab will be penetrated.
- F. Application rates shall be in accordance with the manufacturer's instructions.

**- END OF SECTION -**