

## **POND SEALING OR LINING - BENTONITE SEALANT (Code 521C)**

### **1. SCOPE**

The work shall consist of furnishing all materials, equipment, and labor, and performing all operations in connection with the installation of the bentonite pond sealing project as shown on the drawings or as directed by the Technician.

### **2. MATERIAL**

The material shall be a finely ground high quality sodium bentonite with a free swell value of 22 milliliter or higher when tested in accordance with ASTM D5890. It shall be of a common commercial grade as shown on the drawings and manufactured for the purpose of sealing ponds or similar structures.

### **3. INSTALLATION**

The rate of application and the completed thickness of the treated blanket shall be as shown on the drawings.

Application shall be as follows:

1. The area to be treated shall be drained and dried.
2. All vegetation, trash, stones, and other objects large enough to interfere with the operation shall be removed.
3. Holes shall be filled.
4. Sealing material shall be distributed evenly over the surface.
5. For mixed layers, the material shall be thoroughly mixed to the specified depth with disk, rototiller, or similar equipment. A minimum of two

passes of the mixing equipment is required with the second pass being perpendicular to the first.

6. Unless otherwise specified, each treated layer shall be compacted to a dry density of 90 percent or more of maximum standard Proctor with soil at optimum moisture content.
7. Treated areas shall be protected from puncture by livestock trampling. Areas near the waterline and at points of concentrated surface flow into the pond shall be protected against erosion.
8. Applications shall be carried out in such a manner that erosion and air and water pollution are minimized. The completed job shall present a workmanlike finish.

### **4. SPECIAL PROVISIONS**