

## **SOIL TRAP**

### **General description and application guidelines**

#### **PRODUCT DESCRIPTION:**

**SOIL TRAP** is a liquid soil-stabilizing chemical formulated to effectively seal surfaces, preventing dust conditions and providing cohesive strength to virtually all soil types. **SOIL TRAP** is blended using a unique combination of environmentally friendly organic polymers. The product will form a semi-rigid polymeric membrane within the soil, increasing the strength and stability of the base course. Once the **SOIL TRAP** cures it will not re-disperse in water, and it is not affected by degradation from alkaline materials and sunlight. An advantage of using **SOIL TRAP** over other types of polymer sealing agents, dust control and soil stabilizers is its ability to cost effectively treat soils over a broad spectrum using inexpensive road construction equipment.

#### **APPLICATION:**

**SOIL TRAP** should be applied in a water-diluted form directly onto the properly prepared road surface. Typical preparation of soil includes grading the top 3 to 6 inches of soil, working to remove any deformations in the road surface. If the surface is covered with a loose aggregate such as gravel or limestone, it may be preferred to remove a portion of the aggregate, allowing the road surface to be exposed. Moisture content of the soil should be adjusted to within 1 or 2 % of the optimum value for the particular soil. While the product can be applied on dry, dusty roads, it achieves higher penetration into the surface when applied to a moist surface. Application rate is typically  $\frac{1}{4}$  to  $\frac{1}{2}$  gallon per square yard using a 15 to 20% water solution of **SOIL TRAP**. Using a grader blade, work soil from one side to the other, finishing road to proper grade and crown. Apply the product in a two step manner, with half of the prescribed rate in each application. The second application should follow the compaction of surface using a pneumatic or steel-roller compactor. A minimum of 1 hour of set time following the first application will allow the sealing membrane to form within the soil.

#### **SAFETY AND HEALTH:**

**SOIL TRAP** is an industrial chemical and should be handled only by those individuals who have read and are familiar with the safety and handling procedures as described in the material safety data bulletin on this product. In the case of eye contact, flush for a minimum of 15 minutes with fresh water and contact a physician immediately. In the case of skin contact, wash with soap and water.

The **SOIL TRAP** dust control products are not based on chloride salts; therefore they do not depend on the presence or addition of water to perform. Repeated watering washes away the silt binder for aggregate and accelerates the formation of pothole and ruts in the road. They do not contain hydrocarbon fractions; so run off water from road surface contains no harmful oily residue. The **SOIL TRAP** dust control products are made from synthetic (all-organic) polymers.

**SOIL TRAP** Dust Control Products are mixed with water and applied directly onto the area to be treated. Typical preparation of surface might include a light to moderate grading, filling in ruts and potholes. **SOIL TRAP** Dust Control Products should be applied to a relatively dry surface. Excess moisture or standing water will greatly reduce the long term performance of the product. Application rate is typically  $\frac{1}{2}$  gallon per square yard. The entire treated area should remain undisturbed by traffic for a period of time, allowing the binding action to occur. Curing time will vary by application, as it is a direct function of localized air moisture and temperature. The hotter and dryer the climate the faster the curing time. In areas of high traffic, or where the surface is periodically graded or disturbed, repeated follow-up applications of  $\frac{1}{4}$  to  $\frac{1}{2}$  the initial application rate is effective in maintaining a dust free condition. Unlike "salt based" dust control products, **SOIL TRAP** Dust Control Products do not require repeated addition of water, or high air moisture levels to continue working. On average, dust control can be maintained for 3 to 6 months per application.