



RECOMMENDED EARTHBIND™ APPLICATION PROCEDURE FOR STABILIZATION

Earthbind™ is sold and shipped in concentrate and diluted with water prior to application. For a typical unpaved municipal, county or state roads, Earthbind™ is typically diluted to make a 4:1 solution (water:product). Depending upon environmental conditions, Earthbind™ can be diluted from a 1:1 to a 6:1 solution. When the soil material is near optimum moisture, a 1:1 or 2:1 dilution can be used.

The amount of Earthbind™ Stabilizer concentrate that is required to effectively stabilize an unpaved road can vary based on the:

- Type of road aggregate material
- Climate
- Vehicle traffic - number, type, speed
- Road geometry
- Road surface conditions

The minimum recommended Earthbind™ concentrate for stabilization is 0.10 gallons per inch of depth.

- 4" stabilization - .40 gallons of concentrate per yd²
- 6" stabilization - .60 gallons of concentrate per yd²
- 8" stabilization - .80 gallons of concentrate per yd²

TYPICAL STABILIZATION PROCEDURE

There are several procedures for in-depth stabilization depending on the available equipment and depth of stabilization. One such method is described here. Using a road grader, the road is initially graded to a 4" depth. 1.5 gallons of a 4:1 Earthbind™ solution is applied to the road surface. The solution is bladed into the soil and windrowed back and forth in several passes to obtain a uniform mix. Another 0.5 gallon of 4:1 solution is applied and windrowed to mix. The treated road is then profiled with a road grader and compacted with a roller. 0.25 gallons of solution is applied to the compacted surface.

When stabilizing a road 6"-12" in depth an asphalt reclaimer/stabilizer with a liquid injection system is required. The diluted Earthbind™ Stabilizer is injected onto the road aggregate and tilled into the road bed simultaneously. The stabilized road is then profiled with a road grader and compacted with a drum roller. The road surface is then treated with a 0.25 gallon solution of Earthbind™. This topical application will put a final touch on the road by binding any loose material on the road surface helping to prevent dust generation. This surface treatment can serve as a prime coat prior to paving with asphalt.

RECOMMENDED EQUIPMENT

- Computerized asphalt reclaimer/stabilizer with product injection system or road grader
- Road grader to profile road after product application
- Drum roller with mist system to compact road after stabilization process
- Storage tank(s) with enough capacity to store product
- Storage tank equipped with a circulation system to mix product and pump product into a distributor truck
- Computerized distributor truck or water truck that can accurately apply 0.25 gallons of solution per square yard