EARTHBIND 100
APPLICATION INSTRUCTIONS FOR DUST CONTROL
NY STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
IN CONSULTATION WITH THE
NY STATE DEPARTMENT OF HEALTH
FOR NY STATE DEPARTMENT OF TRANSPORTATION

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A. Dust Control - Heavy Duty Driving Surface
B. Dust Control - Light Duty Driving Surface
C. Soil Stabilization
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A. Dust Control - Heavy Duty Driving Surface
This type of application is intended for constant use by heavy-duty trucks and/or tracked construction equipment.

Application Rates (per surface acre)
Apply at a rate of 0.25-gallons of mixed solution per square yard.

Earthbind 100 concentrate: 725-gallons
Water: 2900-gallons

Application Process
1. Grade unpaved road to remove all imperfections such as potholes and wash boarding. Crown the road to make a 2% slope from the middle of the road to each side of the road.
2. Blend Earthbind 100 concentrate with water in the applicator truck to make a 4:1 solution (4-parts water to 1-part product concentrate, a 20% solution). Mix thoroughly.
3. Apply the 4:1 solution of Earthbind 100 to the driving surface at a rate of 0.25-gallons per square yard using a distributor truck fitted with a pressurized spray bar or water truck.
4. Allow the solution to penetrate the road surface.
5. Again, apply 0.25-gallon of the 4:1 solution of Earthbind 100 per square yard. Allow the solution to penetrate the road surface.
6. Allow the solution to penetrate the road surface.
7. Finish procedure by applying a third shot of 0.25-gallon of the Earthbind 100 solution per square yard.
B. Dust Control - Light Duty Driving Surface

This type of application will provide acceptable performance when used by cars and light trucks. It is not intended for constant use by heavy-duty trucks and/or tracked construction equipment. Areas that will be used by this type of equipment should be treated as a heavy-duty application as noted above.

Application Rates (per surface acre)

Earthbind 100 concentrate: 484-gallons
Water: 1,936-gallons

Apply at a rate of 0.50-gallons of mixed solution per square yard.

Application Process:

1. Grade unpaved road to remove all imperfections such as potholes and wash boarding. Crown the road to make a 2% slope from the middle of the road to each side of the road.
2. Blend Earthbind 100 concentrate with water in the applicator truck to make a 4:1 solution (4-parts water to 1-part product concentrate). Mix thoroughly.
3. Apply the 4:1 solution of Earthbind 100 to the driving surface at a rate of 0.50-gallons per square yard using a distributor truck fitted with a pressurized spray bar or water truck.
4. Allow the solution to penetrate the road surface.
5. Finish procedure by applying a second application of the 4:1 solution of the Earthbind 100 to the driving surface at a rate of 0.50-gallons per square yard.
C. Soil Stabilization

Application Rates (per surface acre)

*Earthbind 100* concentrate:  1,210-gallons
Water:  4,850-gallons

Application Process

1. Grade or till the road base to a 4” depth to remove all imperfections such as potholes and wash boarding (Plan to do the stabilization in ¼-mile increments to ensure that the product does not cure before stabilization is completed).
2. Blend Earthbind 100 concentrate with water in the applicator truck to make a 4:1 solution (4-parts water to one part product concentrate). Mix thoroughly.
3. Apply the 4:1 solution of Earthbind 100 to the loose soil at a rate of 0.5-gallon per square yard of road surface using a distributor or water truck.
4. Blade mix, till, or winrow the treated material, back-and-forth to insure complete mixing.
5. Afterwards the amended aggregate is pulled back across road (if bladed).
6. Apply a second application of a 4:1 solution of Earthbind 100 at a rate of 0.5-gallon per square yard.
7. The material is then again bladed, mixed or winrowed thoroughly to ensure the second application is thoroughly mixed.
8. Check the moisture of the aggregate. Apply additional water to achieve proper moisture content (if needed).
   Optimum moisture is when the aggregate can be molded into a ball. If water can be squeezed out of the ball, the soil is too moist and must be worked until proper conditions are achieved. If the molded soil ball falls apart, it is too dry and more moisture must be added before proceeding.
9. The road is then re-graded to achieve proper grade and crown.
10. The surface is then compacted with a roller.
11. A final application of a 4:1 solution of Earthbind 100 is applied at the rate of 0.25-gallon per square yard.