TECHNICAL SHEET

Intresoil™ Installation Process for New Roads

Combining Soil into an Integrated Whole for Road Stabilization and Construction

Prepare the Intresoil™ Solution:

Follow the steps below to create the typical solution required to stabilize 1 mile (5,280' x 20') of new road.

- 1. Fill the tanker or container with the appropriate volume of water to achieve a 300:1 (water: Intresoil™) dilution. The typical blended application rate is 30 gallons of Intresoil™ concentrate per 1 mile of road at 20' wide. Assuming that the container or tanker has a capacity of 5,000 gallons, two batches will be required to apply the full 30 gallons of Intresoil™ to the 1 mile of road at a 300:1 dilution. For each batch, fill the container or tanker with 4,500 gallons of water.
 - a. Although it is typical to dilute the Intresoil™ concentrate at 300:1 (water : Intresoil™ concentrate), dilution rates can modified based on soil conditions at the time of installation. An assessment of the soil conditions should be made prior to installing Intresoil™ to determine the optimum dilution.
- 2. For each batch, dilute 15 gallons of the Intresoil™ concentrate with 15 gallons of water in a 55gallon drum or other container. This is referred to as the pre-dilution solution.
- 3. Add the pre-dilution solution to the 4,500 gallons of water in the tanker/container. This is referred to as the diluted solution.
- 4. Mix the diluted solution in the tanker by circulating for several minutes with a pump. The Intresoil™ diluted solution is ready for application.

Site Preparation:

- 1. Identify and mark off the area which is intended to be sprayed. Each 15-gallon concentrate batch (4,530-gallon solution) will cover half a mile of road at 20' wide (2,640 x 20').
- 2. Ensure that the road has adequate drainage to help facilitate the removal of water for the road.
- 3. Scarify the half mile section intended to be treated to the designed installation depth.

Application:

- 1. Once the upper 4-6" of the surface has been scarified, use a spray truck to topically apply the Intresoil™ to the loosened surface.
 - a. The application shall be performed in a manner that uniformly distributes the Intresoil™ diluted solution throughout the entire half mile section (2,640 x 20') section.
 - b. The application shall be completed over several passes.

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- c. Verify that the Intresoil™ is penetrating the loosened soil and is not running off. If the Intresoil™ diluted solution is running off of the intended surface, reduce the spray rate and apply the Intresoil™ diluted solution in lighter passes.
- d. Stop spraying during maneuvering and turnaround.
- e. Significantly reduces the spray rate when applying the Intresoil™ diluted solution on slopes to ensure that the Intresoil™ diluted solution does not run off and concentrate at the bottom of the slope.
- 2. Continue the application until the entire 4,530-gallon diluted solution is applied.

Mixing:

- 1. The treated soil shall be windrowed back and forth with a motor grader to uniformly distribute the Intresoil™ diluted solution into the entire designed depth.
 - a. If available, a reclaimer can be used to incorporate the Intresoil™ diluted solution into the 4-6" layer.
- Once the Intresoil™ is evenly mixed into the upper 4-6" of the surface, use a motor grader to shape the road.
 - a. The final road profile should have a 2% crown to divert water from the road into adjacent drainage.
 - b. The final road profile should provide a smooth ride and be free of any irregularities.
- 3. Confirm that the soil is near optimum moisture and compact the surface to the designed density.
 - a. If the material is not at optimum moisture content, amend the material prior to compaction.

Maturation:

- 1. Water the final compacted surface once a day for the next 5-7 days following the installation.
 - a. You do not need to water for 5-7 days following the installation if it is raining during that period.
 - b. This is a vital step in the maturation process and the final performance of the road.

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