

# RECOMMENDED INSTALLATION PROCEDURES

## Enviroseal 2001ä

**Enviroseal 2001ä** was designed for in-situ stabilization AND sealing for non-clay bearing soils. These types generally fall into the AASHTO classifications of A-1 through A-5. Sandy/Silty/Clayey soils can become stabilized and sealed in two easy applications. A minimum depth of twenty (20) centimeters is recommended in areas where there is an adequate Sub Base. In those areas where there is no definable Sub Base then a base depth of 30 cm. is recommended. The water mixture will depend on the type of soil that is being treated and the results expected. A mixture of 10:1 is suitable for making a roadway on an A-2 material. Fines of -100 sieve should be added where necessary to bring the total aggregate mix from 25 to 40 percent of the total. The amount of **Enviroseal 2001ä** that is used will depend on the pore space of the material being stabilized. The range can run from 1 liter per M<sup>3</sup> to 4 liters per M<sup>3</sup>. The amount of pore space that is in the material will determine the amount of **Enviroseal 2001ä** .. Depending on the base material selection in aggregate the CBR can be expected to rise to between 13 and 15. What this means is a quality product for little expense. After treating with **Enviroseal 2001ä** , compaction should be done after the material has set, usually within one to two hours depending on weather conditions.

10:1					*
14:1				*	
18:1			*		
22:1		*			
25:1	*				
	0%	10%	20%	30%	40%

***Soil Humidity In % Of Liquid Limit Showing Approximate Water Add To The Enviroseal 2001ä Concentrate***

### 1. Using a Grader – Compactor – Water Truck.

- Excavate with a grader the Base Soil to the desired depth.
- Windrow to Right and Left equally.
- Spray 2001 over the entire open cut.
- Fold over 1 of the 2 windrows.
- Re-spray the new grade, have grader get as close to final grade as possible.
- Compact 1<sup>st</sup> Lift only 2 passes.
- Spray 2<sup>nd</sup> application over area.
- Take the rest of the windrow and spread evenly over surface.
- Spray final 2001 solution on Surface.
- Blade mix and finish grade.
- Finish compacting for a smooth surface.

**2. Using a grader, Construction Disk, Compactor, Water Truck. By using the disk, the mixing process is cut in half.**

- Scarify surface to desired treatment depth
- Spray **Enviroseal 2001ä** on open cut.
- Run disk over the area until completely blended
- Grade road surface and compact.

**3. Using a grader, Soil Stabilization Machine w/ water Injection, Compactor, Water Truck.**

- Make one pass to desired depth. Adjust moisture to engineering specifications
- Finish grade material.
- Compact surface.

**4. Finish Surface Treatment**

- Spray the surface with **Enviroseal 2001ä** mixed with water at approximately 15:1 and completely cover the stabilized surface with (2) passes. Additional passes may be required as the surface of the road wears or depending on climatic activity and drainage.
- If the roadway is to be paved in the immediate future, apply topical sealant as described above and one coat prior to asphalt installation.

REV- 5-7-01 WAS