

RECOMMENDED INSTALLATION PROCEDURES Enviroseal LBS™

Enviroseal LBS™ was designed for in-situ stabilization of clay bearing soils with medium to high plasticity. These types generally fall into the AASHTO classifications of A-6 through A-8. 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, the optimum moisture content, and the current moisture content. The amount of **Enviroseal LBS™** that is used averages 0.5 liters per cubic meter (0.5L/M3). Depending on the base material selection and amount of aggregate, the CBR can be expected to rise to between 13 and 15. What this means is a quality roadway for little expense. After treating with **Enviroseal LBS™**, compaction can be done immediately with no interruption to normal traffic.

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

The above table shows approximately the water add ratios. The precise amounts are measured for OMC Percentage by weight of dry density. Most soils reach that maximum a approximately 5 to 5.5%. This percentage includes the LBS liquid.

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 **LBS™** 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 1st Lift only 2 passes.
- Spray 2nd application over area.
- Take the rest of the windrow and spread evenly over surface.
- Spray final **LBS™** solution on Surface.
- Blade mixes 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 **LBS™** 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 M10+50-2001™** or **LDC™** mixed with water at approximately 6:1 and completely cover the crushed aggregate surface of at least 5 cm / 2 inches 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. Compact surface after approximately two hours with a vibratory compactor. Save sufficient material to make one last sealing coat.
- If the roadway is to be paved in the immediate future, apply topical sealant as described above and one coat prior to asphalt installation.

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