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## Soil Stabilization with Enviroseal MVA-60 Application Rates and Installation Guidelines

Enviroseal MVA-60 is designed to be added to soil as a percentage of the soil dry density weight. The minimum recommended dosage rate is 1% for light applications up to 6% which is considered for military applications. On average, rates between 1.5% and 3% will show good results to increase bearing capacity on poor grade soils.

**As an example**, based on an application rate of 1.5% of MVA-60 to a soil that has a dry density weight of 1450 Kilo Grams per cubic meter (kg/M<sup>3</sup>), each cubic meter of soil would use 21.75 Kg of MVA-60. Based on the specific gravity of 1.09 Kg per liter, approximately twenty (20) liters of MVA-60 would be used per cubic meter.

Enviroseal MVA-60 is supplied in concentrate with up to 61% polymer solids, this concentrate is mixed with water in a water truck at predetermined rates then the water/polymer mixture is uniformly blended with the soil and compacted to achieve proper density. The amount of water to mix with MVA-60 will depend on the in-situ moisture content and the Optimum Moisture Content (OMC) required for compaction for your particular soil. Knowing the OMC and the in-situ moisture content is necessary prior to beginning since the addition of moisture to the soil includes MVA-60 and water combined. The amount of water to use is the difference between the in-situ moisture content and OMC less the addition of MVA-60.

After determining the amount of total moisture required, determine the capacity of the water truck and fill with the proper amount of MVA-60 and water as determined above. The water truck capacity will determine the total area that can be treated at one time.

Installation methods will vary depending on available equipment to be used for mixing the soil to a homogenous blend with the MVA-60/water mixture. The preferred equipment is a soil stabilizer machine like a Caterpillar SS-250 or similar because it will provide uniform results. Mixing soil with only a grader blade is not recommended but can be done if it is the only equipment available.