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Installation Guidelines for Enviroseal MVA-60 Used for Erosion Control

Enviroseal MVA-60 is a concentrated liquid polymeric binder that is mixed with water and spray applied on soil to form an in-situ applied monolithic membrane that prevents soil erosion from wind and rain. Soil conditions vary and prior to installation, it is important to perform mock testing on your soil. Individual results depend on factors that include site/soil conditions and available equipment. The slope angle, surface texture, soil particle size, plasticity, density, and in-situ moisture content should be considered. The final outcome is determined by the amount of polymer solids adsorbed within a given cubic area. A uniform application depth of 10 to 15 mm will yield optimum results.

1. Surface Preparation

Freshly excavated soil should be allowed to settle a minimum of 48 hours prior to application. Surface should be graded and dry 25 mm or more. Organic matter should be cleared.

2. Pre-Wetting

If the soil is very dry, pre-wet the surface with water to help lower surface tension and allow for deeper penetration.

3. Application Rates

Application rates vary depending on desired outcome and soil conditions described above. Typically, concentrated MVA-60 is used at 8 to 32 fluid ounces per square yard (0.250 to 1 Liter per square meter).

4. Dilution rates

Dilution rates will vary depending on soil type, penetration depth, and in-situ soil moisture content. Typical water mix rates are from five to ten parts water. Determine water mix rates immediately prior to application by testing various mix rates within a given area. Sandy soils will adsorb deeper than clay soils and in general, the depth can be controlled by adjusting the water mix ratio. Steep slopes may necessitate repeated applications to ensure a uniform application.

5. Application process

Do not apply if rain is imminent within six hours prior. Addition of Enviroseal MVA-60 to the water last will prevent excess foaming. Application should be performed with a pressurized spray system such as a water truck with a spray hose or hydroseeder. Apply MVA-60 and water mixture uniformly and evenly at pre-determined application rates over entire area. If the application process warrants two or more coats, allow several minutes between coats, do not allow soil to dry between coats.

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6. Drying and Curing

Dry time is 1 to 4 hours depending on ambient conditions. Hotter and drier conditions accelerate drying while lower temperatures and higher humidity reduce dry time. Higher water mix rates will also extend dry time. Moisture trapped below the dried surface can form a vapor barrier and may prevent MVA-60 from drying quickly. This trapped moisture can cause the appearance to look milky until cured.

8. Storage and Clean Up

Unused portions of Enviroseal MVA-60 must be stored in original container with lid tightly secured. Material that is premixed with water can be stored for two days or more if needed but careful attention should be considered against bacterial contamination from mix water or tank contamination. It is recommended all material mixed with water be used the same day. Flush completely all pumps and hoses immediately after use. MVA-60 will be difficult to remove from most surfaces when dry, chemical solvents and cleaners may be ineffective for removal of residue. Any overspray should be immediately be flushed with fresh water.

9. Safety and Environmental

MVA-60 is an environmentally friendly product and not considered hazardous when used as directed. Refer to SDS for personal safety and environmental information.



Slope stabilization, Lima, Peru