




SoilSYL = SOIL STABILIZER + BIOLOGY + ORGANIC CARBON

Proven Performance

4-VARIETIES OF MYCORRHIZAE, + 10 ADDITIONAL MICROBIAL SPECIES

SoilSYL is an inexpensive liquid soil conditioner developed for mitigating topsoil erosion from wind driven and/or rainwater run-off on most soil types, including post forest fire hydrophobic soils. ***SoilSYL adds critical organic carbon and soil microbes to otherwise distressed soils and creates wettable surface areas on hydrophobic soils, allowing increased water percolation.*** SoilSYL is an activated water-based biopolymer product (NOT an acrylic or hydrocolloid derivative), which when applied as directed can persist up to a year through normal weather and vegetation cycles. ***SoilSYL binding properties are not affected by freeze-thaw cycles and may be combined with various types of seeds and fibers. SoilSYL contains beneficial *soil microbes and organic carbon for sustained performance on sloped terrains.*** SoilSYL agglomerates hydrocarbon fire ash for controlling particle migrations away from watershed areas. SoilSYL is formulated with GRAS listed ingredients that are price indexed worldwide.

PROVEN Features and Benefits:

- ***SoilSYL*** reduces particle detachment via wind and/or raindrops and creates wettable surface areas on hydrophobic soils.
- ***SoilSYL*** reduces the surface tensions of rain water run-off, promoting percolations below hydrophobic soil layers as opposed to carrying off valuable nutrients.
- ***SoilSYL*** integrity persists up to a year through seasonal weather cycles.
- ***SoilSYL*** bonds soils and fibers, penetrating up to 1/2 inch during application.
- ***SoilSYL*** is a highly cost effective product for ***larger projects***, which offers major savings on reduced transportation costs ***via contractor's mobile on-site manufacturing/blending***, using industry standard off-the-shelf equipment.
- ***SoilSYL*** can be applied with a hydroseeder, or aurally with fixed and rotor wing aircraft.
-  ***SoilSYL*** soil conditioner applications are enhanced using ***a diverse population of naturally occurring *soil borne microbes together with organic carbon. (Mycorrhizae, Pseudomonas, Bacillus, Acinetobacter & Azotobacter families) Adding native seeds, and/or fibers also increase sustainability in post fire and all other soil reclamations.***
- ***SoilSYL*** contains a plant-based binder, an immediate source of organic carbon for soil microbes and emerging vegetation.
- ***SoilSYL*** formulations allow functional adjustments "on the fly" to fit project conditions, objectives and variable soil conditions.

- **SoilSYL** technology was approved and successfully used on major USFS, BIA, NASA, (Via BAER) Nevada Test Site- Yucca Mtn., NDOT, Cal Trans, Lake Tahoe Basin, City of Malibu, and Benton Co. Washington projects in the past.
- **SoilSYL** has also been used on many private projects, as in mining reclamations, golf course construction, commercial mass grading and other areas of soils disturbances.
- USDA Rainfall Simulator Testing and USFS/BIA project-field results have proven substantial reduction in sediment losses across 1000's of acres in land reclamations.



SoilSYL

Application Data

Aerial Applications

- Air-to-ground applications will vary relative to fixed wing and rotor wing aircraft. SoilSYL product formulations can be altered to compensate for aerodynamic differentials by improving airborne efficiencies toward greater control of aerial drift and water evaporation caused by aerial vortices.
- Natural or synthetic fibers may be added to SoilSYL to increase moisture retention capacity for severely desiccated soils, increase soil stabilizations' surface integrity and provide markers for distribution coverage. Seed varieties may also be added into the mixture for maximizing revegetation delivery opportunities.
- SoilSYL recommends application rate for post forest fire soil erosion control at approximately **2000 gallons of applied slurry per acre.**
(Approx. 1/2 gallon per SY)
- Recommended fiber rates can vary from 750-1500lbs. (15-30, 50 lb. bales) per acre depending on slope difficulty factors.
- Combined industry-approved hydro mulch fibers of cellulose (paper) and wood fibers are recommended for maximum synergistic soil bonding and hydration. These two combined fibers provide excellent soil bonding together with SoilSYL.

Ground Applications

- SoilSYL is primarily designed for larger projects where precursor dry materials are transported to the water source for onsite-blending. This substantially reduces the transportation costs for the user and/or owner.
- Industry standard hydroseeder mixing and application equipment maybe used for blending and application of the SoilSYL product.
- Standard formulations for ground applications are recommended unless special performance requirements are identified a forehand.

Approved Applicators

- NEWLY Selected Contractor/crews for applications are required to be trained on-site regarding mixing/handling materials, safety training, applications and quality control.

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