



THE SMART

way to eliminate soil erosion, grow grass & produce a healthy turf for your projects.

Why is it the most effective sprayed-on erosion control & turf enhancing product?

The method employed in processing the wood fiber in GeoPerm™ is key to the superior performance of the product when exposed to the rigors of Mother Nature. A thermo-mechanical defibration process is utilized to bring a wood chip down to millions of thin fibers. This advanced method creates longer, flatter fibers that will conform to the soil surface and create a stable mechanical interlocking bond. A thinner fiber also increases the overall volume of fibers per square inch improving the adhesion and water holding capacity.

GeoPerm™ has the ability to absorb more moisture because of multiple resin ducts found in the softwood species of wood fiber used in production of the mulch. When the GeoPerm™ fiber is treated under high-pressure steam, the resin ducts in the wood soften and swell to create large vacuoles or pores. The fibers are then ready to absorb many times their weight in water and slowly release the moisture to the new vegetation.

Chemical Composition

GeoPerm™ contains chemical components that do not dissolve in rain water, until vegetation is established. A precise combination of blended proprietary additives and cross linking agents react to form resilient interlocking bonds. When these components are united in the mixing process (within the hydro mulcher), they exponentially increase the tensile strength of the GeoPerm™ fiber matrix.

Upon application to the soil surface, these proprietary ingredients adhere the GeoPerm™ slurry to the existing soil structure, creating a strong permeable mat that is extremely resistant to erosion.

Results from field trials and university testing supports and confirms the bonding capabilities of GeoPerm™. In addition to the hydrocolloidal (polysaccharides) and crosslinker, other ingredients are included in the GeoPerm™ formulation to provide benefits such as viscosity control, improved dispersion of hydrocolloids, reduced foaming, improved water retention and increased wettability of fiber.



GeoPerm™ applied on 2:1 Slopes

**Density of the softwood fibers:
Thousands of fibers per sq. ft.**



Stage 1.

Stage 2.

Stage 3.

Stage 4.

GeoPerm™ Advantages

- Stabilizing steep and severe slopes
- Replaces sod and erosion control blankets
- Enhances turf establishment
- Prevents migration of soil and seeds
- 100% biodegradable

GeoPerm™ Properties

Package Weight	50 lbs
Water Holding Capacity	15 times its weight in water
Mineral Activators	10% Based on Soil Chemistry
Application Rate	3000-4100 lb per Acre based on Soil Composition

Conclusion

Erosion Control testing, field trials and extensive usage throughout many regions confirm GeoPerm™ provides outstanding protection from water runoff, soil and seed loss while retaining the expediency of a hydraulically-applied erosion control product.

Call now or visit our website

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AUTHORIZED DEALER



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