



**PermaMatrix™  
Certificate of Compliance**

**Patents Pending**  
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Sunmark Environmental Services, LLC certifies that PermaMatrix™ contains the following properties and characteristics

**Description -**

**PermaMatrix™ Biotic Soil Amendment** is an ideal solution for areas where topsoil has been depleted or removed. **PermaMatrix** has been designed as a sustainable growing medium that greatly reduces the impact and costs associated with replacing topsoil or importing compost. **PermaMatrix™** stems from two words- permaculture and matrix. **Perma**, short for permanent is an approach



to designing perennial systems that mimics the relationships found in natural ecologies. It is a concept that at the very heart focuses on sustainability. **Matrix**, a group of things that create another, refers to a biological material where specialized structures are formed or embedded. Today there is a strong sense that man must be the one to give nutrients to plants, but in reality plants were designed with the capabilities to recycle nutrients amongst themselves in nature.

**Specifications -**

**PermaMatrix** to water ratio can be subjective depending on machine capabilities and your personal preference. To create proper slurry blend of **PermaMatrix** in your tank add **PermaMatrix** at a rate equal to 4,000 pounds per acre or 100 pounds per 1,000 square feet. The slurry should be free flowing in the hydro seeder with a high concentration of material so there is no splashing of water and no caking of product. With any hydraulic applied material a wetter mixture will have a tendency to disperse into the soil causing it to appear as if it is providing less coverage.

Adding more **PermaMatrix** to your hydro seeder it will allow you to shoot more square feet per load. Example: An area that would require 3 loads with paper or wood mulch now can be shot in 2 loads with **PermaMatrix**. With greater coverage you will need to increase the seed and fertilizer per load to achieve the same rate per 1,000 square feet.

- Start filling water into the tank.
- Engage the agitator at ½ speed.
- Load **PermaMatrix** into tank.
- Add seed and/or fertilizer when the water level reaches ½ full.
- Load all of the **PermaMatrix** needed before tank reaches ¾ full.
- Resume filling the tank with water until the tank is full.

**WARRANTY**

Sunmark Environmental Services, LLC warrants that its products are free from defects and will perform as stated in this document. Sunmark Environmental Services, LLC will not warrant that the product will perform under unlimited circumstances that are caused by variables such as the soil surface condition, installation methods, and/or weather conditions.

**Physical Characteristics**

Toxicity	Non-Toxic
Applied Color	Dark Brown
Surface Tension	Material will disperse and suspend evenly when agitated in water
PH	6.6
C:N Ratio	30.2:1

**Packaging and Shipping Data**

Bag Size	9.5" x 16.5" x 22"
Bag Weight	50 lbs - Compressed Bales
Pallet	40 Bags
Full Truck	22 Pallets, 880 Bags
Packaging	Moisture Resistant Bags

**Composition**

Organics	48% +/- 6%
Natural Fibers	35% +/- 8%
Biochar	12% +/- 4%
Micronutrients	5% +/- 3%
Water Storage Organics	1% +/- 2%

**PermaMatrix Application Rate**

Per Acre	4,000 lbs
Per 1,000 Square Feet	100 lbs