



Terra-Matrix™ SMM

Stabilized Mulch Matrix



Description

Terra-Matrix™ SMM is a biodegradable, Stabilized Mulch Matrix composed of 100% recycled Thermally Refined™ wood fibers and wetting agents (including high-viscosity colloidal polysaccharides and cross-linked biopolymers). The SMM is made in the US, plastic-free, and phytosanitized to eliminate potential weed seeds and pathogens. Upon application, the product forms an intimate bond with the soil surface to create a porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth. The SMM may require a 24-48 hour curing period to achieve maximum performance.

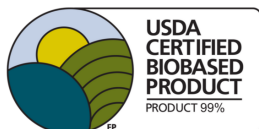
Recommended Applications

- Erosion control for slopes ranging from mild to steep ($\leq 2H:1V$)
- Rough graded slopes
- Equivalent performance to some rolled erosion control blankets
- Enhancement of vegetation establishment

Technical Data

Physical Properties*	Test Method	Units	Tested Value
Mass/Unit Area	ASTM D6566 ¹	g/m ² (oz/yd ²)	≥ 336 (9.9)
Thickness	ASTM D6525 ¹	mm (in)	≥ 2.5 (0.1)
Ground Cover	ASTM D6567 ¹	%	≥ 95
Water Holding Capacity	ASTM D7367	%	≥ 1,350
Material Color	Observed	n/a	Green
Performance Properties*	Test Method	Units	Tested Value
Cover Factor ²	ASTM D8298-Type 1	n/a	≤ 0.10
Percent Effectiveness ³	ASTM D8298-Type 1	%	≥ 90
Vegetation Establishment	ASTM D7322	%	≥ 400
Functional Longevity ⁴	ASTM D5338	months	≤ 6
Cure Time	Observed	hours	24 — 48
Environmental Properties*	Test Method	Units	Tested Value
Ecotoxicity ⁵	EPA 2021.0	n/a	Non-Toxic
Biodegradability	ASTM D5338	n/a	Yes
USDA BioPreferred® Biobased Content	ASTM D6866	%	99
Elemental Impurity Limits	ASTM D8082	Pass/Fail	Pass
Product Composition			Typical Value
Thermally Processed Wood Fiber ⁶ (within a pressurized vessel)			95 %
Wetting Agents – Including high-viscosity colloidal polysaccharides and cross-linked biopolymers			5 %

* When uniformly applied at a rate of 3,000 pounds per acre (3,400 kilograms/hectare) under laboratory conditions. 1. ASTM test methods developed for Rolled Erosion Control Products that have been modified to accommodate Hydraulic Erosion Control Products. 2. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface. 3. % Effectiveness = One minus Cover Factor multiplied by 100%. 4. Functional Longevity is the estimated time period, based upon field observations, that a material can be anticipated to provide erosion control and agronomic benefits as influenced by composition, as well as site-specific conditions, including; but not limited to – temperature, moisture, light conditions, soils, biological activity, vegetative establishment and other environmental factors. 5. 48-hour LC₅₀ > 100% - LC₅₀ refers to the percent concentration of a substance in water when 50% percent mortality of an organism is reached. 50% mortality of the tested species (*Daphnia magna*) could not be achieved when subjected to 100% effluent concentration proving the material to be acutely non-toxic. 6. Heated to a temperature greater than 380 degrees Fahrenheit (193 degrees Celsius) for 5 minutes at a pressure greater than 50 psi (345 kPa) in order to be Thermally Refined™/Processed and to achieve phytosanitization.



Packaging Data

Properties	Test Method	Units	Nominal Value
Bag Weight	Scale	kg (lb)	22.7 (50)
Bags per Pallet	Observed	#	40

UV and weather-resistant plastic bags. Pallets are weather-proof stretch wrapped with UV resistant pallet cover.

Profile Products

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