

Profile) Terra-Matrix[™] SMM



Description

Terra-Matrix™ SMM is a fully biodegradable, Stabilized Mulch Matrix composed of 100% recycled Thermally Refined[™] wood fibers and naturally derived biopolymers. The SMM may require a 24-48 hour curing period to achieve maximum performance. The SMM is phytosanitized, free from plastic netting, and when cured forms an intimate bond with the soil surface to create a continuous, porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth.

Recommended **Applications**

- Erosion control for slopes ranging from mild to steep (≤2H:1V)
- Rough graded slopes
- Equivalent performance to some rolled erosion control blankets with plastic nettings

Divisional Deservations* Test Mathead Units Minimum Value

· Enhancement of vegetation establishment

Technical Data

Physical Properties*	Test Method	Units	Minimum Value	
Mass/Unit Area	ASTM D6566 ¹	g/m² (oz/yd²)	305 (9.0)	
Thickness	ASTM D6525 ¹	mm (in)	2.5 (0.1)	
Wet Bond Strength	ASTM D6818 ¹	N/m (lb/ft)	66 (4.5)	
Ground Cover	ASTM D6567 ¹	%	95	
Water Holding Capacity	ASTM D7367	%	1300	
Material Color	Observed	n/a	Green	
Performance Properties*	Test Method	Units	Value	
Cover Factor ²	Large Scale ⁴	n/a	< 0.10	
Percent Effectiveness ³	Large Scale ⁴	%	> 90	
Cure Time	Observed	hours	24 — 48	
Vegetation Establishment	ASTM D7322 ¹	%	400 minimum	
Environmental Properties*	Test Method	Units	Typical Value	
Functional Longevity ⁵	ASTM D5338	n/a	Up to 6 months	
Ecotoxicity	EPA 2021.0	%	96-hr LC50 > 100%	
Biodegradability	ASTM D5338	%	100	
Product Composition			Typical Value	
Thermally Processed Wood Fiber ⁶ (within a pressurized vessel) 83 % \pm 3 %				
Crosslinked Biopolymers and Water Absorbents 5 % ± 1%				
Moisture Content			12 % <u>+</u> 3 %	
* When uniformly applied at a rate of 3000 pounds per Products that have been modified to accommodate Hydra surface. 3. % Effectiveness = One minus Cover Factor r please contact a Profile technical service representative a anticipated to provide erosion control and agronomic been light conditions, soils, biological activity, vegetative establ Celsius) for 5 minutes at a pressure greater than 50 psi (3-	ulic Erosion Control Products. 2. Co multiplied by 100%. 4. Large scale t t 866-325-6262. 5. Functional Longe efits as influenced by composition, a ishment and other environmental fac	over Factor is calculated as soil loss r testing conducted at Utah Water Res evity is the estimated time period, bar as well as site-specific conditions, inc ctors. 6. Heated to a temperature q	ratio of treated surface versus an untreated control search Laboratory. For specific testing information sed upon field observations, that a material can be luding; but not limited to – temperature, moisture, reater than 380 degrees Fahrenheit (193 degrees	
Properties	Test Method	Units	Nominal Value	

Packaging Data

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

Profile Products

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