



Solutions for your Environment™

ProMatrix® EFM™ Engineered Fiber Matrix®



**GREEN DESIGN
ENGINEERING™**
EARTH-FRIENDLY SOLUTIONS
FOR SUSTAINABLE RESULTS™

Description

ProMatrix® EFM™ is a biodegradable, Engineered Fiber Matrix® composed of 100% recycled, Thermally Refined™ virgin wood fibers, crimped biodegradable interlocking fibers derived from regenerated cellulose sourced from sustainably harvested wood, micro-pore granules mineral activators and wetting agents (including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents). The EFM is patented, made in the US, plastic-free, and phytosanitized to eliminate potential weed seeds and pathogens. When cured, ProMatrix 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. ProMatrix performs as a Bonded Fiber Matrix (BFM) product and may require a 4-24 hour curing period to achieve maximum performance.

Recommended Applications

- Erosion control for slopes ranging from mild to extreme (≤1H:1V)
- Meets or exceeds performance of Bonded Fiber Matrix (BFM)
- Equivalent performance to most erosion controlled blankets
- Rough graded slopes
- 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)	≥ 390 (11.6)
Thickness	ASTM D6525 ¹	mm (in)	≥ 4 (0.16)
Ground Cover	ASTM D6567 ¹	%	≥ 98
Water Holding Capacity	ASTM D7367	%	≥ 1,400
Material Color	Observed	n/a	Green
Performance Properties*	Test Method	Units	Tested Value
Cover Factor ²	ASTM D8298-Type 1	n/a	≤ 0.05
Percent Effectiveness ³	ASTM D8298-Type 1	%	≥ 95
Vegetation Establishment	ASTM D7322	%	≥ 600
Functional Longevity ⁴	ASTM D5338	months	≤ 12
Cure Time	Observed	hours	4-24
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	%	97
Elemental Impurity Limits	ASTM D8082	Pass/Fail	Pass
Carbon Footprint ⁶	Life Cycle Assessment	Unit CO ₂ e/Unit of product ⁷	≤0.4
Product Composition	Typical Value		
Thermally Processed Wood Fibers ⁸ (within a pressurized vessel)	77 %		
Wetting Agents - including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents	18 %		
Crimped Biodegradable Interlocking Fibers derived from regenerated cellulose sourced from sustainably harvested wood	2.5 %		
Micro-Pore Granules	2.5 %		
Properties	Test Method	Units	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.



Made in USA

Packaging Data

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