





## Description

ProMatrix™ Engineered Fiber Matrix™ (EFM™) is 100% biodegradable, made in the United States and is composed of 100% recycled, thermally refined (within a pressurized vessel) virgin wood fibers, crimped interlocking biodegradable fibers derived from regenerated plant sources, mineral activators and wetting agents (including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents). The EFM is phytosanitized, free from plastic, 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. The EFM 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	
Thickness	ASTM D6525 <sup>1</sup>	mm (in)	≥ 4 (0.16)	
Ground Cover	ASTM D6567 <sup>1</sup>	%	≥ 98	
Water Holding Capacity	ASTM D7367 <sup>1</sup>	%	≥ 1,400	
Material Color	Observed	n/a	Green	
Performance Properties*	Test Method	Units	Tested Value	
Cover Factor <sup>2</sup>	Large Scale⁴	n/a	≤ 0.05	
Percent Effectiveness <sup>3</sup>	Large Scale <sup>4</sup>	%	≥ 95	
Cure Time	Observed	hours	4-24	
Vegetation Establishment	ASTM D7322 <sup>1</sup>	%	≥ 600	
Functional Longevity <sup>5</sup>	ASTM D5338	months	≤ 12	
Environmental Properties*	Test Method	Units	Tested Value	
Ecotoxicity	EPA 2021.0	%	48-hr LC <sub>50</sub> > 100%	
Biodegradability	ASTM D5338	n/a	Yes	
Certified BioPreferred® Biobased Content	ASTM D6866	%	97	
Product Composition			Typical Value	
Thermally Processed Wood Fibers <sup>6</sup>			77 %	
Wetting Agents - including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water			18 %	
poryodecinariaco, croso inine		Crimped, Biodegradable Interlocking Fibers derived from regenerated plant sources		
		ed from	2.5 %	

When uniformly applied at a rate of 3500 pounds per acre (3900 kilograms/hectare) under laboratory conditions. 1. ASTM test methods developed for Rolled Ension Control Products that have been modified to accommodate Hydraulic Ension Control Products. 2. Cover Factor is calculated as soll loss ratio of treated surface versus an untreated control surface. 3. & Effectiveness – One minus. Cover Factor multiplied by 100%. 4. Large scale testing conducted at Usah Water Research Laboratory and Texas Transportation Institute. For specific testing information please contact a Profile technical service representative at 800-508-8681 or +1-847-215-1144. 5. 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 influent by composition, as well as site-specific conditions, including but not limited to temperature, moisture, light conditions, soits, biological activity, vegetative establishment and other environmental factors. 6. Headed to a temperature greater that 300 degrees a Private health (1914) pointed to be Thermatily Refricative Procressed and to achieve physicosatitization on the temperature greater than 50 part (384 Fay 1) in order to be Thermatily Refricative Procressed and to achieve physicosatitization on the program of the procress of the procress of the procress and the soll to achieve physicosatitization on the program of the procress of the procress of the program of the program

## **Packaging Data**

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.