

ProMatrix™ Engineered Fibre Matrix™ (EFM™) is 100% biodegradable, made in the United States and is composed of 100% recycled, thermally refined (within a pressurized vessel) virgin wood fibres, crimped interlocking biodegradable fibres, mineral activators and wetting agents (including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents). The EFM™ 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. The EFM™ performs as a Bonded Fibre 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 severe ($\leq 1H:1V$)
- Meets or exceeds performance of bonded fibre 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 6525 ¹	mm (in)	≥ 4 (0.16)
Ground Cover	ASTM 6567 ¹	%	≥ 98
Water Holding Capacity	ASTM D7367 ¹	%	$\geq 1,400$
Material Colour	Observed	n/a	Green
Performance Properties*	Test Method	Units	Tested Value
Cover Factor ²	Large Scale ⁴	n/a	≤ 0.05
Percent Effectiveness ³	Large Scale ⁴	%	≥ 95
Cure Time	Observed	hours	4-24
Vegetation Establishment	ASTM D7322	%	≥ 600
Functional Longevity ⁵	ASTM D5338	months	≤ 12
Environmental Properties*	Test Method	Units	Tested Value
Ecotoxicity	EPA 2021.0	%	48-hr LC ₅₀ > 100 %
Biodegradability	ASTM D5338	n/a	Yes
Product Composition			Typical Value
Thermally Processed Wood Fibres ⁸			77 %
Wetting Agents-including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents			18 %
Crimped Biodegradable interlocking Fibres derived from plant sugars			2.5 %
Micro-Pore Granules			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 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. Large scale testing conducted at Utah Water Research Laboratory and Texas Transportation Institute. For specific testing information please contact a Terrafix technical service representative. 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 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. 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 Regined/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.			

To the best of our knowledge, the information contained herein is accurate. However, Terrafix Geosynthetics Inc. cannot assume any liability whatsoever for the accuracy or completeness thereof. Final determination of the suitability of any information or material for the use contemplated, of its manner Terrafix Geosynthetics Inc. 2025.