



# Flexterra® HP-FGM™

High Performance Erosion Control

## Absolutely The Most Effective Erosion Control Medium Available.

Flexterra® HP-FGM™ represents the next generation in Flexible Growth Media and is proven to surpass the original's outstanding performance.

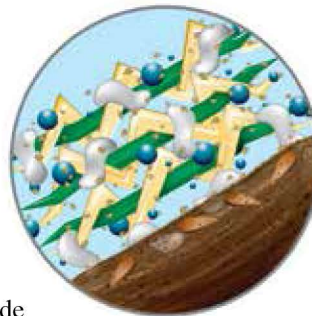
### Flexterra HP-FGM Delivers:

- The highest germination and growth establishment
- Greater than 99% erosion control effectiveness immediately upon application
- 100% biodegradability
- Greater safety for even the most sensitive aquatic environment because it's non-toxic
- Near-perfect erosion control and denser vegetation while protecting the natural environment



### HP Technology: Greener By Design

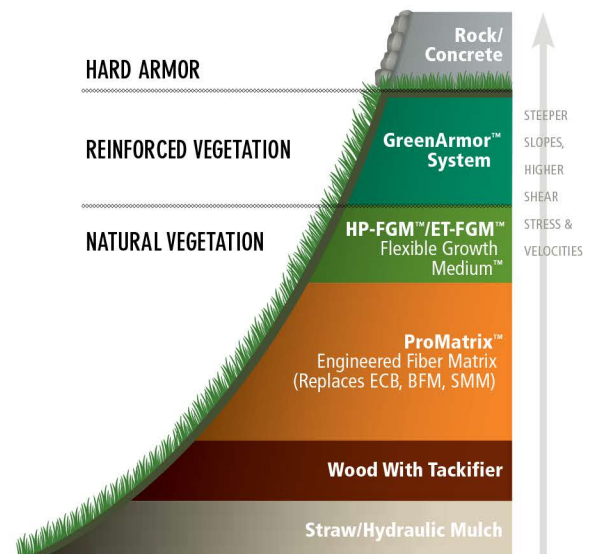
100% recycled Thermally Refined® wood fibers produce the highest yield and coverage per unit weight and are phyto-sanitized, eliminating weed seeds and pathogens



100% biodegradable interlocking man-made fibers increase mechanical bonding of the matrix to provide immediate performance upon installation

100% non-toxic biopolymers and water absorbents enhance erosion control resistance and growth establishment

Revolutionary Micro-Pore particles optimize water and nutrient retention



# Flexterra® HP-FGM™ Technical Data:

	TEST METHOD	UNITS	MINIMUM VALUE
<b>PHYSICAL PROPERTIES*</b>			
Mass/Unit Area	ASTM D6566 <sup>1</sup>	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	407 (12)
Thickness	ASTM D6525 <sup>1</sup>	mm (in)	5.6 (0.22)
Erosion Control Effectiveness	ASTM D6818 <sup>1</sup>	N/m (lb/ft)	131 (9)
Ground Cover	ASTM D6567 <sup>1</sup>	%	99
Water-Holding Capacity	ASTM D7367	%	1700
Material Color	Observed	n/a	Green
<b>ENVIRONMENTAL PROPERTIES*</b>			
Biodegradability	ASTM D5338	%	100
Functional Longevity <sup>2</sup>	ASTM D5338	n/a	Up to 18 months
Ecotoxicity	EPA 2021.0	%	96-hr LC50 > 100%
Effluent Turbidity	Large Scale <sup>3</sup>	NTU	< 100
<b>PERFORMANCE PROPERTIES*</b>			
Cover Factor <sup>4</sup>	Large Scale <sup>3</sup>	n/a	< 0.01
Percent Effectiveness <sup>5</sup>	Large Scale <sup>3</sup>	%	> 99
Cure Time	Observed	hours	0-2
Vegetation Establishment	ASTM D7322 <sup>1</sup>	%	> 800
<b>PRODUCT COMPOSITION</b>			<b>TYPICAL VALUE</b>
Thermally Processed Wood Fibers <sup>6</sup> (within a pressurized vessel)			80% ± 3%
Cross-Linked Biopolymers and Water Absorbents			10% ± 1%
Crimped, Man-Made Biodegradable Interlocking Fibers			5% ± 1%
Proprietary Mineral Activator			5% ± 1%

\* When uniformly applied at a rate of 3500 lb/ac (3900 kg/ha) under laboratory conditions.

1. ASTM test methods developed for Rolled Erosion Control Products that have been modified to accommodate Hydraulic Erosion Control Products.
2. 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 and light conditions, soils, biological activity, vegetative establishment and other environmental factors.
3. Large Scale testing conducted at Utah Water Research Laboratory. For specific testing information please contact a Profile technical service representative at 866-325-6262.
4. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.
5. Percent Effectiveness = One minus Cover Factor multiplied by 100%.
6. Heated to a temperature greater than 193 degrees C (380 degrees F) for 5 minutes at a pressure greater than 345 kPa (50 psi) in order to be Thermally Refined<sup>®</sup>/Processed and to achieve phyto-sanitization.

## SETTING THE BAR EVEN HIGHER

**Better Erosion Control**—Flexterra® HP-FGM™ immediately bonds to the soil surface. Its flexible yet stable matrix retains > 99% of soil, vastly reducing turbidity of runoff for up to 18 months.

**Greater Seed Germination and Growth**—High Performance matrix outperforms traditional Flexterra FGM with 600% better initial germination and 250% increased biomass due to a combination of optimized water and nutrient retention.

**Safer for the Environment**—Unlike rolled erosion control blankets, Flexterra HP-FGM has no nets or threads to endanger wildlife. It uses 100% biodegradable crimped interlocking fibers and 100% recycled and phyto-sanitized wood fibers. Flexterra HP-FGM is 100% safe for aquatic and terrestrial life forms.

**Earth-Friendly and Sustainable Results**—Flexterra HP-FGM is a result of Profile's Green Design Engineering™, creating cost-effective and environmentally superior solutions through the design, manufacture and application of sustainable erosion control and vegetation establishment technologies.



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

Green Design Engineering™ is a holistic approach that combines agronomic and engineering expertise with advanced technologies to provide cost-effective and earth-friendly solutions. Profile strives to deliver Green Design Engineering across our team of consulting professionals, innovative products and educational resources.



PS<sup>3</sup> is a free, comprehensive 24/7 online resource you can use to design a project and select the right products that address both the physical and agronomic needs of your site. It will help you develop holistic, sustainable solutions for cost-effective erosion control, vegetation establishment and subsequent reductions in sediment and other pollutants from leaving disturbed sites. Because good plans start with the soil, PS<sup>3</sup> offers free soil testing to ensure this critical step is considered. To access the site, design your project and take advantage of a free soil analysis, visit [www.profileps3.com](http://www.profileps3.com).



For technical information or distribution, please call 800-508-8681.  
For customer service, call 800-366-1180.

For warranty information, visit [profileproducts.com](http://profileproducts.com).

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