

Flexterra® HP-FGM™

600% GREATER GERMINATION, NEARLY PERFECT EROSION CONTROL, NOW 100% BIODEGRADABLE.





New patent-pending Flexterra® High Performance-Flexible Growth Medium™ (HP-FGM™) takes the near-perfect performance of the original Flexterra FGM to an even higher level. Introduced in 2004, Flexterra FGM rapidly set a new standard of excellence for controlling erosion and establishing vegetation on severe slopes. It outperformed blankets and led the movement toward more cost-effective, environmentally responsible hydraulically applied techniques. Flexterra HP-FGM represents the next generation in Flexible Growth Media and is proven to surpass the original's outstanding performance.


NEW 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

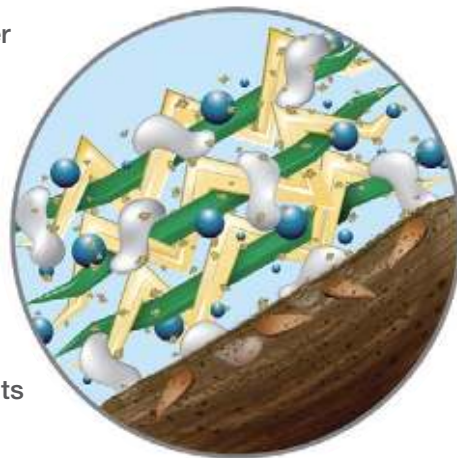
NEW HP TECHNOLOGY: GREENER BY DESIGN

 Revolutionary Micro-Pore particles optimize water and nutrient retention

 100% recycled Thermally Refined® wood fibers not only produce the highest yield and coverage per pound, they are also phyto-sanitized, eliminating weed seeds and pathogens

 100% biodegradable interlocking man-made fibers help increase wet bond strength

 100% non-toxic biopolymers and water absorbents further enhance performance



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. HP also features greater wet bond strength yielding increased resistance to sheet flow.
- > **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.

TECHNICAL DATA

PHYSICAL PROPERTIES*	TEST METHOD	UNITS	MINIMUM VALUE
Mass/Unit Area	ASTM D6566 ¹	g/m ² (oz/yd ²)	407 (12)
Thickness	ASTM D6525 ¹	mm (in)	5.6 (0.22)
Wet Bond Strength	ASTM D6818 ¹	N/m (lb/ft)	131 (9)
Ground Cover	ASTM D6567 ¹	%	99
Water-Holding Capacity	ASTM D7367	%	1700
Material Color	Observed	n/a	Green
ENVIRONMENTAL PROPERTIES*	TEST METHOD	UNITS	TYPICAL VALUE
Biodegradability	ASTM D5338	%	100
Functional Longevity ²	ASTM D5338	n/a	Up to 18 months
Ecotoxicity	EPA 2021.0	%	96-hr LC50 > 100%
Effluent Turbidity	Large Scale ³	NTU	< 100
PERFORMANCE PROPERTIES*	TEST METHOD	UNITS	VALUE
Cover Factor ⁴	Large Scale ³	n/a	< 0.01
Percent Effectiveness ⁵	Large Scale ³	%	> 99
Cure Time	Observed	hours	0-2
Vegetation Establishment	ASTM D7322 ¹	%	> 800
PRODUCT COMPOSITION	TYPICAL VALUE		
Thermally Processed Wood Fibers ⁶ (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 3900 kg/ha (3500 lbs/ac) 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 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. % 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®/Processed and to achieve phyto-sanitization.



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

Green Design Engineering™ is a holistic approach, combining environmentally beneficial design and ecologically sound products with agronomic and erosion control expertise, to provide the most effective, customized and cost-efficient solutions for erosion control and vegetative establishment.



Put Green Design Engineering into action. PS³ is the industry's first and only web-based design and selection tool that integrates erosion and sediment control engineering with agronomic excellence. Log on to www.ProfilePS3.com to find the right solution for any site.



For technical information or distribution, please call 800-508-8681.
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750 Lake Cook Road • Suite 440
Buffalo Grove, IL 60089

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