

The Ultimate Medium for Erosion Control and Revegetation

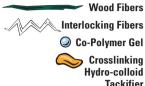






The Right Chemistry Works Every Time.



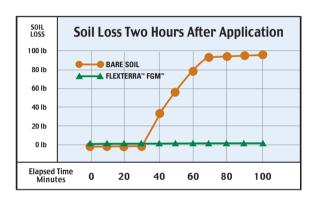


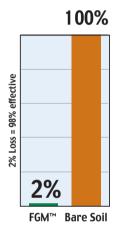
Flexterra[™] uses patented technology combining both chemical and mechanical bonding techniques to lock the engineered medium in place. Crimped synthetic fibers, organic fibers and performance-enhancing additives form a lofty, interlocking matrix that creates air space and water-absorbing cavities which improve germination; reduce the impact of raindrop energy and minimize soil loss. Superior chemistry means no cure time, which enables the matrix to handle higher rates of surface flow energy from heavy rains—upon application. Water-resistant tackifiers and flocculants chemically bond the matrix to the soil surface.

NO CURE TIME REQUIRED

Testing proves that Flexterra™ is 98% effective two hours after application.

FGM™ application rate 3,000 lb per acre. 10-year storm event (2.1 inches) San Diego State University Soil Erosion Research Laboratory (SDSU/SERL)





Solves Problems on a Variety of Sites.

FGM™ has been used on projects ranging from rough ground and steep, rocky slopes to moderate- or steep-graded fill slopes. It is also used in environmentally sensitive wetlands and other wildlife areas not compatible with nettings. It has proven itself in a broad array of applications:

DOT & Highway Projects

FGM[™] can be applied quickly to small or large areas with no cutting, trimming or stapling involved. It has received DOT approval on a growing list of states.

Mine Reclamation

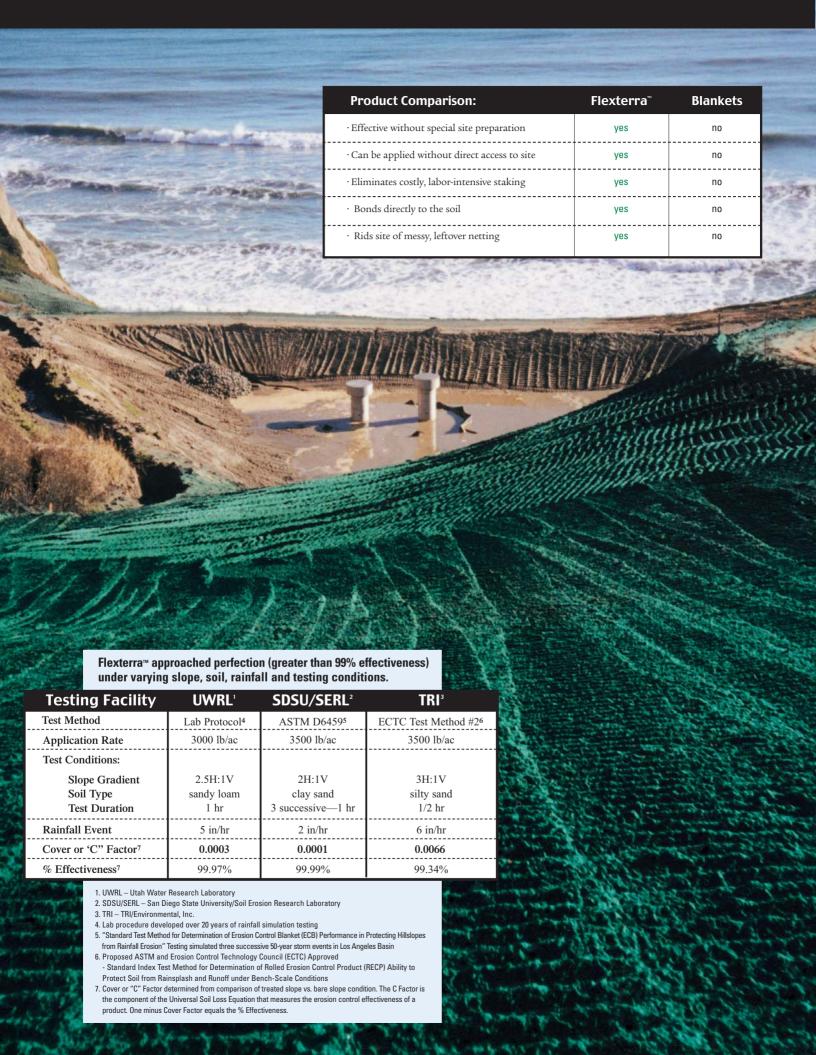
FGM[™] exceeds the rigid environmental standards that come with abandoned mined land (AML) reclamation projects.

Commercial and Residential Construction

FGM™ doesn't require stakes that pose hazards and doesn't leave netting behind that can interfere with mowing.

Golf Course Construction

FGM[™] locks the soil and seed in place, allowing grass to mature into a healthy, dense cover at a fraction of the cost of sod.



\$6,000 \$4,000 Flexterra**

INSTALLED COST PER ACRE* INCLUDING SEED, FERTILIZER, AND LABOR

Flexterra™ dramatically reduces overall costs. The savings are even more dramatic when you consider the extensive soil preparation blankets require to minimize voids and bridging over the soil surface.

*Based on installed rate at 3,500 lb per acre.

Flexible Slope Protection at the Lowest Overall Cost.

New Flexterra™ is a revolutionary component of Profile Erosion Control Solutions (PECS™), the industry's most comprehensive assortment of hydraulic mulch and erosion control blanket technology combined with on-site expertise and unfailing support. Like all products within the PECS arsenal, Flexterra™ is specifically engineered to deliver optimum performance under demanding conditions.

Nothing controls soil erosion and accelerates seed germination like Flexterra,™ the ultimate hydraulically applied blanket. Patented technology creates a Flexible Growth Medium™ (FGM™) that offers better protection on slopes than rolled erosion control blankets (ECB) and bonded fiber matrix (BFM) products—with the speed and cost savings of hydraulic seeding. Plus, it can be combined with other erosion control technologies to accommodate a broad range of conditions. At lower application rates, it can significantly and economically improve the performance of complementary technologies from straw blankets to turf reinforcement mats (TRM).

Flexterra™ is effective upon application. It requires no cure time to develop intimate soil contact. This engineered medium performs on slopes steeper than 2.5H:1V and remains effective even during sustained rainfall events. It can be applied using all types of mechanically agitated hydraulic seeding equipment over uneven terrain and rough seedbeds.

It Doesn't Just Perform, It Outperforms.

Nothing compares to the performance of Flexterra™ when evaluated by the most prestigious slope erosion testing laboratories in North America. Flexterra™ performance has been proven.

- · Superior erosion control—0.0001 Cover (C) Factor from the Universal Soil Loss Equation translates to 99.9% effectiveness—or near perfection.
- · Effective immediately—no cure time required.
- · Fastest turf establishment—1500% water holding capacity delivers more moisture to the seedbed for better germination.
- \cdot 1/3 less expensive than blankets—less soil preparation is required.

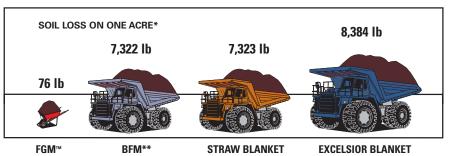
Flexterra™ has consistently outperformed any and all competitive vegetated slope protection technologies including Bonded Fiber Matrices and Erosion Control Blankets.

Blanket and BFM Comparisons Fall Flat.

Flexterra™ is an effective alternative to erosion control blankets and BFMs. No straw or excelsior blanket alone can match Flexterra's™ slope protection, even on critical sites. The loft of the FGM™ matrix captures moisture and creates more air space to enhance seedling emergence. Flexterra™ absorbs and holds 5 times its weight in water, while standard excelsior blankets retain only twice their weight. The beauty of Flexterra™, however, is that it can be used a number of ways. For example, blankets and turf reinforcement mats (TRMs) will perform better when a protective layer of Flexterra™ is first applied at a reduced rate before installation.

Independent testing proves that Flexterra™ significantly out-performs excelsior and straw blankets as well as BFMs in preventing erosion. The results speak for themselves:

NEARLY 100 TIMES LESS SOIL LOSS PER ACRE THAN BLANKETS AND BFMS.



89% 77% Percentage of Seed Germinated 69% Flexterra™ Excelsion Straw FGM™ Blanket **Blanket**

PROMOTES MORE COMPLETE SEED **GERMINATION THAN BLANKETS**

Flexterra™ not only provides better immediate erosion control, independent testing also proves Flexterra™ provides better long-term control through more reliable and denser vegetation establishment.

> FGM™ application rate 3,000 lb per acre. 5" per hr. rain event on 2.5H:1V slope for 1 hr. on sandy loam soil. *Extrapolated from Utah research. **Competitive BFM product

Taking Erosion Control to a Whole New Level.

Although BFM technology has its place, Flexterra™ FGM™ is engineered for much tougher site and environmental conditions.

Select FGM™ if:

- and chemical bonds to withstand greater surface flow and/or severe slopes
- · Soil needs erosion protection for up to one year
- · The site demands immediate erosion protection and you need to eliminate risk from impending weather
- · You need the fastest vegetation establishment possible
- · You require a high factor of design safety

Select BFM if:

- · The site requires stronger mechanical · A chemical bond is strong enough to meet slope severity and length
 - · The required functional longevity of soil protection is 6 months or less
 - · The soil is dry and rain is not expected within 48 hours after application
 - · There is a high degree of certainty heavy rains will not follow application
 - · You require a moderate factor of design safety

Flexible Growth Medium[™] Specification

The Flexible Growth Medium™ (FGM™) shall be a hydraulically-applied, flexible erosion control blanket composed of long strand, thermally processed wood fibers, crimped, interlocking fibers and performance enhancing additives. The FGM™ requires no curing period and upon application forms an intimate bond with the soil surface to create a continuous, porous, absorbent and erosion resistant blanket that allows for rapid germination and accelerated plant growth.

The FGM™ shall be Flexterra™, as manufactured by Profile Products, LLC and shall conform to the property values listed below when applied at a rate of 3500 pounds per acre (3900 kilograms/hectare).

PROPERTY	TEST METHOD	ENGLISH	SI
Physical			
Mass Per Unit Area	ASTM D-6566	11.5 oz/yd²	390 g/m ²
Thickness	ASTM D-6525	0.19 in	4.8 mm
% Ground Cover	ASTM D-6567	99%	99%
Water Holding Capacity	Proposed ASTM	1500%	1500%
Flexural Rigidity (wet)	ASTM D-6575	12 oz-yd	10,000 mg-cm
Color (fugitive dye)	Observed	Green	Green
Endurance			
Functional Longevity	Observed	Up to 1 yr	Up to 1 yr
Performance			
Cover Factor (6 in/hr event)	ECTC Test Method #2	0.0066	0.0066
% Effectiveness	ECTC Test Method #2	99.34%	99.34%
Shear Stress	ECTC Test Method #3	1 lb/ft²	48 Pa

One minus Cover or "C" Factor equals the % effectiveness.

INSTALLATION

Strictly comply with manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines with fan-type nozzle (50-degree tip). To achieve optimum soil surface coverage apply FGM™ from opposing directions to soil surface.

Erosion Control and Revegetation:

Step One: Apply seed, fertilizer and other soil amendments with small amount of Flexterra[™] for visual metering. Step Two: Mix 50 lb of FGM™ per 125 gallons (23 kg/475 liters) of water; confirm loading rates with equipment manufacturer.

SLOPE GRADIENT	ENGLISH	SI
≤3H to 1V	3000 lb/ac	3400 kg/ha
>3H to 1V and ≤2H to 1V	3500 lb/ac	3900 kg/ha
>2H to 1V and ≤1H to 1V	4000 lb/ac	4500 kg/ha
>1H to 1V	4500 lb/ac	5100 kg/ha
Below ECB or TRM	1500 lb/ac	1700 kg/ha
As infill for TRM	3500 lb/ac	3900 kg/ha

Consult comprehensive CSI formatted specification for additional details.

PACKAGING

Bags: Net Weight - 50 lb, UV resistant plastic film.

Pallets: Weather-proof, stretch-wrapped with UV resistant pallet cover, 40 bags/pallet, 1 ton/pallet.

Your Trusted Partner in Soil Solutions™

Profile Products is the world's largest producer of hydraulic mulch and hydraulic mulch additives, and a leader in erosion control and revegetation science. Many of today's industry standards were innovations introduced by Profile. Our leadership continues through aggressive research and development, active support of trade associations, and education designed to advance the industry's effectiveness and professionalism.





