

CocoFlex™ ET-FGM

Extended Term - Flexible Growth Medium



Two-year protection from a superior hydraulic application.

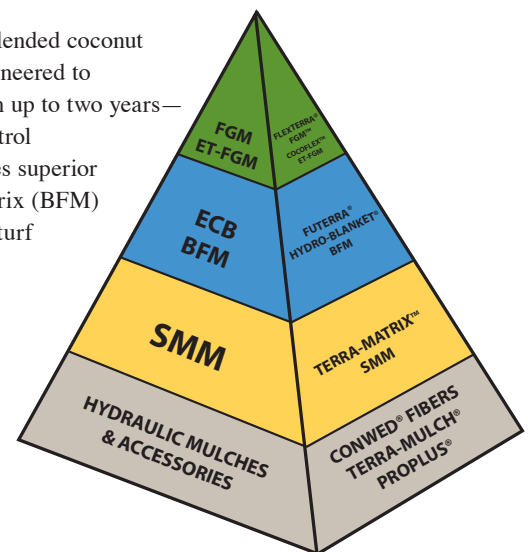
CocoFlex™ ET-FGM Extended Term-Flexible Growth Medium is designed with blended coconut and wood fibers, crimped interlocking man-made fibers and additives that are engineered to perform under extreme conditions. CocoFlex ET-FGM provides superior protection up to two years—making it the highest performing, longest-lasting hydraulically applied erosion control product on the market. This patented technology requires no cure time and provides superior slope protection over rolled Erosion Control Blanket (ECB) and Bonded Fiber Matrix (BFM) products. Plus, it can be combined with other erosion control technologies such as turf reinforcement mats to accommodate a broad range of conditions.

COCOFLEX ET-FGM

- Provides protection up to two years—the longest-lasting hydraulically applied erosion control product on the market
- Unmatched performance— > 99% effectiveness translates to superior erosion protection on slopes > 2.5H:1V
- Effective immediately—no cure time required
- Fastest growth establishment—1500% water holding capacity delivers more moisture to the seedbed for faster germination and accelerated growth
- Less expensive than extended term blankets—less soil preparation is required

YOUR TRUSTED PARTNER IN SOIL SOLUTIONS™

By creating products using Green Design Engineering,™ Profile Products has become the world's largest combined supplier of hydraulically applied erosion control products, hydraulic mulch and agronomic accessories, turf reinforcement mats and erosion control blankets. We are a leader in erosion control and revegetation science and many of today's industry standards were innovations introduced by Profile. Our leadership continues through on-site consultative services, aggressive research and development, active support of trade associations and educational forums designed to advance the industry's effectiveness and professionalism.



THE PROFILE PERFORMANCE PYRAMID
Look to CocoFlex for advanced soil stabilization.

CocoFlex™ ET-FGM Specification

This section specifies a hydraulically applied Extended Term - Flexible Growth Medium (ET-FGM) composed of long-strand, Thermally Refined® wood fibers, coconut fibers, crimped interlocking man-made fibers and performance-enhancing additives. The ET-FGM requires no curing period and upon application 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.

Extended Term - Flexible Growth Medium shall be CocoFlex™ ET-FGM and conform to the following property values when uniformly applied at a rate of 3500 pounds per acre (3900 kilograms/hectare) under laboratory conditions.

	TEST METHOD	ENGLISH	SI
PHYSICAL			
Mass Per Unit Area	ASTM D6566 ¹	11.5 oz/yd ²	390 g/m ²
Thickness	ASTM D6525 ¹	0.23 in	5.8 mm
% Ground Cover	ASTM D6567 ¹	99%	99%
Water Holding Capacity	ASTM D7367	1500%	1500%
Cure Time	Observed	< 2 hr	< 2 hr
Color (fugitive dye)	Observed	Green	Green
ENDURANCE			
Functional Longevity ²	Observed	≤ 24 months	≤ 24 months
PERFORMANCE			
Cover Factor ³ (6 in/hr event)	ASTM D7101 ¹	0.01	0.01
% Effectiveness ⁴	ASTM D7101 ¹	99%	99%
Cover Factor ³ (5 in/hr event)	Large Scale ⁵	0.0001	0.0001
% Effectiveness ⁴	Large Scale ⁵	> 99.99%	> 99.99%
Shear Stress	ASTM D7207 ¹	1.6 lb/ft ²	77 Pa
Vegetation Establishment	ASTM D7322 ¹	511%	511%

1. ASTM test methods developed for Rolled Erosion Control Products and have been modified to accommodate hydraulically applied erosion control products.
2. Functional longevity depends on moisture, light and environmental conditions.
3. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.
4. % Effectiveness = One minus Cover Factor multiplied by 100%.
5. Large scale testing conducted at Utah Water Research facility using rainfall simulator on 2.5H:1V slope, sandy-loam soil, at a rate of 5" per hour for a duration of 60 minutes.

COMPOSITION

All components of the ET-FGM shall be pre-packaged by the Manufacturer to assure both material performance, and compliance with the following values. **Under no circumstances will field mixing of additives or components be accepted.**

Thermally Processed Wood Fibers — 51% ± 2%
 Coconut Fibers — 21.5% ± 2%
 Proprietary Crosslinked Hydro-Colloidal Tackifiers
 and Activators — 10% ± 1%

Proprietary Crimped, Interlocking Fibers — 7.5% ± 1%
 Moisture Content — 10% ± 2%

INSTALLATION

Strictly comply with Manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines with fan-type nozzle (50-degree tip) whenever possible to achieve best soil coverage. Apply ET-FGM from opposing directions to assure 95% soil surface coverage. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed 100 ft (30 m).

Erosion Control and Revegetation:

For maximum performance, apply ET-FGM in a two-step process:

- Step One: Apply fertilizer, other soil amendments and 50% of seed with a small amount of ET-FGM for visual metering.
- Step Two: Mix balance of seed and apply ET-FGM at a rate of 50 lb per 125 gallons (23 kg/475 liters) of water over freshly seeded surfaces. Confirm loading rates with equipment manufacturer. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.

Depending upon site conditions ET-FGM may be applied in a one-step process where all components may be mixed together in single tank loads. Consult with Manufacturer for further details.

SLOPE GRADIENT/CONDITION	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 ET-FGM specification for additional details.

PACKAGING

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

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



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