



Flexterra® HP-FGM®

High Performance-Flexible Growth Medium



Description

Flexterra® HP-FGM® is a biodegradable, High Performance-Flexible Growth Medium (HP-FGM) composed of 100% recycled, Thermally Refined™ virgin wood fibers, crimped biodegradable interlocking fibers derived from regenerated cellulose sourced from sustainably harvested wood, micro-pore granules, naturally derived cross-linked biopolymers and water absorbents. The HP-FGM is patented, made in the US, plastic-free, and phytosanitized to eliminate potential weed seeds and pathogens. Flexterra 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.

Recommended Applications

- Erosion control for slopes ranging from mild to severe ($\leq 0.25H:1V$)
- Rough graded slopes
- Superior performance compared to rolled erosion control blankets
- Enhancement of vegetation establishment
- Ideal infill material for Futerra® Turf Reinforcement Mats to create the GreenArmor® System

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 D6525 ¹ | mm (in) | ≥ 5.6 (0.22) |
| Ground Cover | ASTM D6567 ¹ | % | ≥ 99 |
| Water Holding Capacity | ASTM D7367 | % | $\geq 1,700$ |
| Material Color | Observed | n/a | Green |
| Performance Properties* | Test Method | Units | Tested Value |
| Cover Factor ² | ASTM D8298-Type 1 | n/a | ≤ 0.01 |
| Percent Effectiveness ³ | ASTM D8298-Type 1 | % | ≥ 99 |
| Vegetation Establishment | ASTM D7322 | % | ≥ 800 |
| Functional Longevity ⁴ | ASTM D5338 | months | ≤ 18 |
| Cure Time | Observed | hours | 0 - 2 |
| Environmental Properties* | Test Method | Units | Tested Value |
| Ecotoxicity ⁵ | EPA 2021.0 | n/a | Non-Toxic |
| Biodegradability | ASTM D5338 | n/a | Yes |
| USDA BioPreferred® Biobased Content | ASTM D6866 | % | 100 |
| Elemental Impurity Limits | ASTM D8082 | Pass/Fail | Pass |
| Carbon Footprint ⁶ | Life Cycle Assessment | Unit CO ₂ e/Unit of product ⁷ | ≤ 0.4 |
| Product Composition | | | Typical Value |
| Thermally Processed Wood Fibers ⁸ (within a pressurized vessel) | | | 80 % |
| Wetting Agents-including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents | | | 10 % |
| Crimped Biodegradable Interlocking Fibers derived from regenerated cellulose sourced from sustainably harvested wood | | | 5 % |
| Micro-Pore Granules | | | 5 % |



Packaging Data

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* When uniformly applied at a rate of 3,500 pounds per acre (3,900 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. 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. 5. 48-hour LC₅₀ > 100% - LC₅₀ refers to the percent concentration of a substance in water when 50% percent mortality of an organism is reached. 50% mortality of the tested species (*Daphnia magna*) could not be achieved when subjected to 100% effluent concentration proving the material to be acutely non-toxic. 6. Cradle to factory gate (Conover, NC) life cycle assessment. 7. "Carbon dioxide equivalent" or CO₂e is a term for describing different greenhouse gases in a common unit. For any quantity and type of greenhouse gas, CO₂e signifies the amount of CO₂ which would have the equivalent global warming impact. The unit of CO₂e per unit of product is a consistent ratio based on mass, regardless of what unit of mass is chosen. For instance, there is 0.4 kg of CO₂e per kg of product or 0.4 oz CO₂e per oz of product. 8. 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 Refined™/Processed and to achieve phytosanitation.

| 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.

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