

Virtually Perfect Performance



EcoFlex™ HP

High Performance
Flexible Growth Medium™

Erosion Control and Revegetation for Very Steep Slopes and Critical Sites



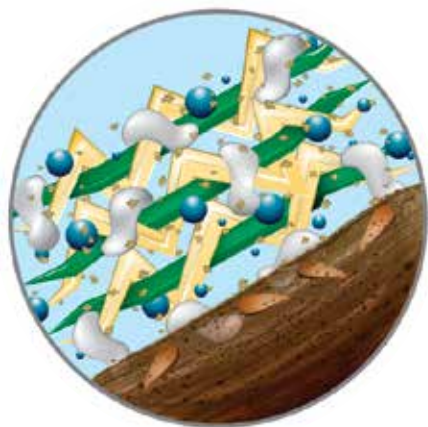
New EcoFlex™ High Performance-Flexible Growth Medium™ provides superior erosion control immediately upon application and enhances seed germination to quickly protect and stabilize even the steepest slopes. This technologically advanced matrix increases wet bond strength for greater resistance to sheet flow, delivering greater than 99% erosion control effectiveness and reducing turbidity of runoff for up to 18 months.

Not only does EcoFlex HP deliver the highest germination and vegetative establishment when compared to any rolled blanket or other hydraulically applied mulch, it is also environmentally friendly:


- 100% non-toxic and safe for even the most sensitive environments
- No staples, nets or threads to endanger wildlife





ECOFLEX HP TECHNOLOGY: HOW DESIGN SAFETY MEETS ENVIRONMENTAL SAFETY



 Revolutionary Patented Micro-Pore particles optimize water and nutrient retention

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

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

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

EcoFlex HP outperforms Erosion Control Blankets — at a lower installed cost.

EcoFlex™ HP Technical Data

	TEST METHOD	UNITS	TESTED VALUE
PHYSICAL PROPERTIES*			
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	%	≥ 1,700
Material Color	Observed	n/a	Green
ENVIRONMENTAL PROPERTIES*			
Biodegradability	ASTM D5338	n/a	Yes
Ecotoxicity	EPA 2021.0	%	48-hr LC ₅₀ > 100%
Effluent Turbidity	Large Scale ⁵	NTU	< 250
PERFORMANCE PROPERTIES*			
Cover Factor ²	Large Scale ⁵	n/a	≤ 0.01
Percent Effectiveness ³	Large Scale ⁵	%	≥ 99
Functional Longevity ⁴	ASTM D5338	months	≤ 18
Cure Time	Observed	hours	0-2
Vegetation Establishment	ASTM D7322 ¹	%	≥ 800
PRODUCT COMPOSITION			TYPICAL VALUE
Thermally Processed ⁶ (within a pressurized vessel) 100% Recycled Virgin Wood Fibers			80%
Wetting agents (including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents)			10%
Crimped Biodegradable Interlocking Fibers			5%
Micro-Pore Granules			5%

NOTE: All components of the High Performance Flexible Growth Medium shall be pre-packaged by the Manufacturer to assure material performance. No chemical additives with the exception of fertilizer, soil pH modifiers, extended-term dyes and biostimulant materials should be added to this product.

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 EcoFlex HP from opposing directions to assure 100% 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 EcoFlex HP in a two-step process:

Step One: Apply fertilizer with specified prescriptive agronomic formulations and typically 50% of seed mix with a small amount of EcoFlex HP for visual metering.

Step Two: Mix balance of seed and apply EcoFlex HP at a rate of 50 pounds per 125 gallons (22.7 kg/475 liters) of water over freshly seeded surfaces. Confirm loading rates with equipment manufacturer.

Depending upon site conditions, EcoFlex HP 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.

INSTALL PRODUCT AT THE FOLLOWING TYPICAL APPLICATION RATES:		
Slope Gradient/Condition	English	SI
< 4H to 1V	2,500 lb/ac	2,800 kg/ha
> 4H to 1V and ≤ 3H to 1V	3,000 lb/ac	3,360 kg/ha
> 3H to 1V and ≤ 2H to 1V	3,500 lb/ac	3,920 kg/ha
> 2H to 1V and ≤ 1H to 1V	4,000 lb/ac	4,480 kg/ha
> 1H to 1V	4,500 lb/ac	5,040 kg/ha
Below ECB or TRM	1,500 lb/ac	1,680 kg/ha
As infill for TRM	3,500 lb/ac	3,920 kg/ha

Consult comprehensive CSI formatted specification for additional details.



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* When uniformly applied at a rate of 3,500 lb/ac (3,920 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. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.

3. Percent 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 and light conditions, soils, biological activity, vegetative establishment and other environmental factors.

5. Large Scale testing conducted at Utah Water Research Laboratory. For specific testing information please contact a Profile technical service representative at 800-508-8681 (US and Canada) or +1-847-215-1144 (International).

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.