



# ProGanics DUAL® Biotic Erosion Control Matrix



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

Solutions for your Environment™

## Description

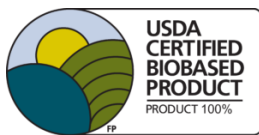
ProGanics DUAL® is a biodegradable Biotic Erosion Control Matrix (BECM) designed to efficiently accelerate development of depleted soils/substrates with low organic matter and limited biological activity while simultaneously providing effective erosion protection in a convenient one-step application. ProGanics DUAL made in the United States, plastic-free, contains 100% recycled bark and wood fibers that have been phytosanitized to eliminate potential weed seeds and pathogens. The patented ProGanics DUAL formulation also contains a proprietary composition of crimped biodegradable interlocking fibers derived from regenerated cellulose sourced from sustainably harvested wood, micro-pore granules, naturally derived cross-linked biopolymers and water absorbents to achieve Bonded Fiber Matrix (BFM) erosion control performance. Upon application, ProGanics DUAL 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

- Development of soils with low organic matter (< 5%)
- Rapid establishment and sustained growth of vegetation
- Replacement of costly or difficult to obtain topsoil or compost
- Erosion control for slopes ranging from mild to steep ( ≤ 2H:1V )
- Convenient and efficient one-step application

## Technical Data

Physical Properties*	Test Method	Units	Tested Value
Topsoil & Engineered Soil Amendment	ASTM D5268-19	n/a	Compliant
Organic Material	ASTM D586	%	≥ 95
Mass/Unit Area	ASTM D6566 <sup>1</sup>	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	≥ 729 (21.4)
Ground Cover	ASTM D6567 <sup>1</sup>	%	≥ 99
Water Holding Capacity	ASTM D7367	%	≥ 850
pH	ASTM D1293	n/a	6.0 ± 1.0
C:N Ratio	ASTM E1508 & EPA Method 1687	n/a	50:1 ± 10
Material Color	Observed	n/a	Brown
Performance Properties*	Test Method	Units	Tested Value
Cover Factor <sup>2</sup>	ASTM D8298-Type 1	n/a	≤ 0.05
Percent Effectiveness <sup>3</sup>	ASTM D8298-Type 1	%	≥ 95
Vegetation Establishment	ASTM D7322	%	≥ 700
Functional Longevity <sup>4</sup>	ASTM D5338	months	≤ 12
Cure Time	Observed	hours	12 - 24
Environmental Properties*	Test Method	Units	Tested Value
Ecotoxicity <sup>5</sup>	EPA 2021.0	n/a	Non-Toxic
Biodegradability	ASTM D5338	n/a	Yes
USDA BioPreferred® Biobased Content	ASTM D6866	%	100
EPA 503 Metals - Pass/Fail	EPA 503	Pass/Fail	Pass
Pathogen Reduction	40 CFR 503 Class A Compost	Pass/Fail	Pass
Elemental Impurity Limits	ASTM D8082	Pass/Fail	Pass
Product Composition	Typical Value		
Thermally Processed Bark and Wood Fibers <sup>6</sup> (within a pressurized vessel)	85%		
Proprietary Blend of Wetting Agents, Crosslinked Biopolymers, Water Absorbents, Biochar, Seaweed Extract, Humic Acid, Endomycorrhizae and Beneficial Bacteria, Micro-pore Granules	11%		
Crimped Biodegradable Interlocking Fibers derived from regenerated cellulose sourced from sustainably harvested wood	4%		
Moisture Content	12%		
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.			



**Made in USA**

## Packaging Data

### Profile Products

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ProGanics DUAL DS