



# ProGanics® DUAL™ Biotic Soil + Erosion Control



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

## Description

ProGanics® DUAL™ Biotic Soil + Erosion Control is considered a Biotic Erosion Control Matrix (BECM) that is designed to efficiently accelerate development of depleted soils/substrates with low organic matter and limited biological activity while simultaneously providing effective site erosion protection in a convenient one step application. ProGanics DUAL is non-toxic and contains bark and wood fibers that have been phyto-sanitized to eliminate potential weed seeds and pathogens. After phyto-sanitization, a proprietary blend of wetting agents, crosslinked biopolymers, water absorbents, biochar, seaweed extract, humic acid, endomycorrhizae and beneficial bacteria and crimped, biodegradable interlocking fibers derived from regenerated plant sources are then added. The resulting ProGanics DUAL formulation will achieve Bonded Fiber Matrix (BFM) erosion control performance while acting to regenerate denuded soils and promote vegetative establishment. 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. ProGanics DUAL may require a 12-24 hour curing period to achieve maximum performance.

## 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

## Soil Building, Revegetation and Erosion Control

Mix seed and specified Prescriptive Agronomic Formulations at recommended rates in approved hydraulic seeding/mulching equipment when water has reached approximately 1/3 of the working capacity. Add ProGanics DUAL at a rate of 75 pounds per 100 gallons of water (34 kg / 379 L) in hydraulic equipment while agitating. Add fertilizer when the tank is approximately 3/4 full. Apply ProGanics DUAL at application rates determined by Slope Gradient and/or soil Organic Matter content, whichever may be the limiting factor, over properly prepared surfaces that are deemed geotechnically stable. Follow all manufacturer's product selection guidelines or go to [www.ProfilePS3.com](http://www.ProfilePS3.com) for assistance.

## Technical Data

Physical Properties*	Test Method	Units	Typical Value
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	Typical Value
Cover Factor <sup>2</sup>	Large Scale <sup>4</sup>	n/a	≤ 0.05
Percent Effectiveness <sup>3</sup>	Large Scale <sup>4</sup>	%	≥ 95
Cure Time	Observed	hours	12 - 24
Vegetation Establishment	ASTM D7322	%	≥ 700
Functional Longevity <sup>5</sup>	ASTM D5338	months	≤ 12
Environmental Properties*	Test Method	Units	Typical Value
Ecotoxicity	EPA 2021.0	%	48-hr LC <sub>50</sub> > 100%
Biodegradability	ASTM D5338	n/a	Yes
EPA 503 Metals - Pass/Fail	EPA 503	Pass/Fail	Pass
Pathogen Reduction	40 CFR 503 Class A Compost	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			11%
Crimped, Biodegradable Interlocking Fibers Derived from Regenerated Plant Sources			4%
Moisture Content			12%

\* When uniformly applied at a rate of 6,500 pounds per acre (7,290 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. Large scale testing conducted at Utah Water Research Laboratory. For specific testing information please contact a Profile technical service representative at 800-508-8681 or +1-847-215-1144. 5. 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. 6. 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 phyto-sanitization.

## Packaging Data

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.			

## Profile Products

750 Lake Cook Road, Ste. 440  
Buffalo Grove, IL 60089  
800-508-8681 or +1-847-215-1144  
[www.profileproducts.com](http://www.profileproducts.com)

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