



**ProGanics™**  
Biotic Soil Media

DISTRIBUTED BY:



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

## Description

ProGanics™ Biotic Soil Media™ (BSM™) is designed as an alternative to topsoil to accelerate development of depleted soils/substrates with low organic matter, low nutrient levels and limited biological activity. This Engineered Soil Media™ (ESM™) helps unleash soils to their fullest potential for vegetative establishment and more effective erosion control. ProGanics is non-toxic with bark and wood fibers that have been phyto-sanitized to eliminate potential weed seeds and pathogens - prior to the introduction of soil building components.

## 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
- Replacement of Compost, Peat, Manure and Other Sources of Organic Material
- Typically Installed Beneath Hydraulically-applied and Rolled Erosion Control Products (HECPs and RECPs) as Growing Media.

## Soil Building and Revegetation

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™ Biotic Soil Media at a rate of 100 pounds per 100 gallons of water (45 kg / 379 L) on hydraulic equipment with gear or positive displacement pumps and 75 pounds per 100 gallons of water (34 kg / 379 L) on centrifugal pumps while agitating; add fertilizer when the tank is approximately 3/4 full. Apply over properly prepared surfaces that are deemed geotechnically stable. Confirm specific material loading rates with equipment manufacturer.

## Erosion Control Solution

Apply ProGanics as directed above being sure to include all Prescriptive Agronomic Formulations, fertilizer and seed at their recommended rates. Apply Flexterra® HP-FGM™, ProMatrix™ EFM™, or RECP over ProGanics as directed by manufacturer's recommendation. 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	%	94
Mass/Unit Area	ASTM D6566 <sup>1</sup>	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	392 (11.6)
Ground Cover	ASTM D6567 <sup>1</sup>	%	99
Water Holding Capacity	ASTM D7367	%	900
pH	ASTM D1293	n/a	6.0 ± 0.3
C:N Ratio	ASTM E1508 & EPA Method 1687	n/a	50:1
Material Color	Observed	n/a	Brown
Performance Properties*	Test Method	Units	Typical Value
Cover Factor <sup>2</sup>	Large Scale <sup>4,5</sup>	n/a	0.01
Percent Effectiveness <sup>3</sup>	Large Scale <sup>4,5</sup>	%	99
Vegetation Establishment	ASTM D7322 <sup>1</sup>	%	850
Environmental Properties*	Test Method	Units	Typical Value
Ecotoxicity	EPA 2021.0	%	48-hr LC <sub>50</sub> > 100%
EPA 503 Metal Limits <sup>6</sup>	SW846-6020 04.06	Pass/Fail	Pass
Product Composition			Typical Value
Thermally Processed Bark and Wood Fibers <sup>7</sup> (within a pressurized vessel)			89%
Proprietary blend of Polysaccharide Polymers, Biochar, Seaweed Extract, Humic Acid and Endomycorrhizae			11%
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.			

## Packaging Data

### Profile Products

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