ProGanics™ Biotic Soil Media

Solutions for your Environment™

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 phytosanitized 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 for assistance.

Technical Data

Physical Properties*	Test Method	Units	Tested Value
Organic Material	ASTM D586	%	≥ 94
Mass/Unit Area	ASTM D6566[1]	g/m^2 (oz/yd^2)	≥ 392 (11.6)
Ground Cover	ASTM D6567[1]	%	≥ 99
Water Holding Capacity	ASTM D7367	%	≥ 900
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[2]	Large Scale[4,5]	n/a	≤ 0.01
Percent Effectiveness[3]	Large Scale[4,5]	%	≥ 99
Vegetation Establishment	ASTM D7322[1]	%	≥ 850
Topsoil Alternative	ASTM D5268-19	n/a	Compliant
Environmental Properties*	**Test Method**	**Units**	**Tested Value**
Ecotoxicity	EPA 2021.0	%	48-hr LC_{50} > 100%
Biodegradability	ASTM D5338	n/a	Yes
Certified BioPreferred® Biobased Content	ASTM D6866	%	100
EPA 503 Metal Pass/Fail[6]	EPA 503 Metal Limits	Pass/Fail	Pass
Pathogen Reduction	40 CFR 503 Class A Compost	Pass/Fail	Pass
Product Composition			**Typical Value**
Thermally Processed Bark and Wood Fibers[7] (within a pressurized vessel)			89%
Proprietary blend of Polysaccharide Polymers, Biochar, Seaweed Extract, Humic Acid, Endomycorrhizae, and Beneficial Bacteria			11%
Moisture Content			12%

* 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. 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. Performance Property values derived from testing of ProMatrix Engineered Fiber Matrix (EFM) applied at 3,500 pounds per acre (3,900 kilograms/hectare) over ProGanics at an application of 3,500 pounds per acre (3,900 kilograms/hectare). 6. A list of Metals included in the EPA 503 Metal Limits Testing is available upon request. 7. 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.

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