



Application Guide for ProGanics™ Biotic Soil Media™ (BSM™)

ProGanics Biotic Soil Media is mixed at a rate of 75 or 100 pounds per 100 gallons of water

Application / Loading Procedures

- A. Strictly comply with equipment Manufacturer's installation instructions and recommendations.**
Use approved hydro-spraying machines with the appropriate nozzle whenever possible to achieve best soil coverage. Apply from opposing directions to assure uniform soil surface coverage.
- B.** To ensure proper application rates, measure and stake area.
- C.** Fill 1/3 of mechanically agitated hydroseeder with water. Turn pump on for 30-60 seconds to purge and pre-wet lines. Turn pump off.
- D.** Turn agitator on, open recirculation valve and load low density materials first (i.e. seed and Prescriptive Agronomic Formulations).¹
- E.** Continue slowly filling tank with water while loading ProGanics at a rate of 100 pounds per 100 gallons of water (45.4 kg/379 liters) in machines equipped with gear or positive displacement pumps and 75 pounds per 100 gallons of water (34.0 kg/379 liters) in machines with centrifugal pumps.
- F.** Consult loading chart on the back page to determine the number of bags to be added for desired area and application rate.
- G.** ProGanics should be completely loaded before water level reaches 75% of the top of tank.
- H.** Add fertilizer and other high density materials as water level approaches the top of the tank.
- I.** Top off with water and mix until ProGanics is fully broken apart and hydrated (minimum of 10 minutes — increase mixing time when applying in cold conditions). It is very important to fully hydrate the ProGanics and activate the bonding additives to obtain proper viscosity.
- J.** Shut off recirculation valve to minimize potential for air entrainment within the slurry.
- K.** Slow down agitator(s) to minimum speed and start applying with an appropriate nozzle.
- L.** Spray in opposing directions for maximum soil coverage.
- M.** Upon completion of application, return immediately to water source to repeat mixing and application sequence or to flush equipment. Be sure to thoroughly purge pump and all lines of residual material from previous load.

Apply ProGanics as directed above being sure to include all Prescriptive Agronomic Formulations, fertilizer and seed at their recommended rates. If possible, allow ProGanics to dry slightly² prior to application of Hydraulically-applied Erosion Control Products, such as Flexterra® HP-FGM™ or ProMatrix™ EFM™, or Rolled Erosion Control Product (RECP) as directed by manufacturers' product selection guidelines or go to **www.ProfilePS3.com** for assistance. Use caution to ensure overspray of hydraulic erosion control product does not cause movement of the ProGanics. When installing rolled erosion control products over ProGanics, take caution to minimize disturbance of the treated surface and avoid excessive foot traffic.

¹ Do not add additional tackifiers or polymers to this pre-mixed formulation without first consulting Profile Products.

² Best results and more rapid drying are achieved at temperatures exceeding 60°F (15°C). Drying times may be accelerated in high temperature, low humidity, and windy conditions with product applied on dry soils.

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Loading Chart for ProGanics Biotic Soil Media

| Hydroseeder Pump Type | Tank Size (gal) | # of 50-lb bales | (lb) | 3,500 | | 4,000 | | 4,500 | | 5,000 | |
|----------------------------|-----------------|------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | | | | Sq ft | Acres |
| Centrifugal | 300 | 4.5 | 225 | 2,800 | 0.06 | 2,450 | 0.06 | 2,178 | 0.05 | 1,960 | 0.05 |
| Gear/Positive Displacement | 300 | 6.0 | 300 | 3,734 | 0.09 | 3,267 | 0.08 | 2,904 | 0.07 | 2,614 | 0.06 |
| Centrifugal | 600 | 9.0 | 450 | 5,601 | 0.13 | 4,901 | 0.11 | 4,356 | 0.10 | 3,920 | 0.09 |
| Gear/Positive Displacement | 600 | 12.0 | 600 | 7,467 | 0.17 | 6,534 | 0.15 | 5,808 | 0.13 | 5,227 | 0.12 |
| Centrifugal | 800 | 12.0 | 600 | 7,467 | 0.17 | 6,534 | 0.15 | 5,808 | 0.13 | 5,227 | 0.12 |
| Gear/Positive Displacement | 800 | 16.0 | 800 | 9,957 | 0.23 | 8,712 | 0.20 | 7,744 | 0.18 | 6,970 | 0.16 |
| Centrifugal | 1,100 | 16.5 | 825 | 10,268 | 0.24 | 8,984 | 0.21 | 7,986 | 0.18 | 7,187 | 0.17 |
| Gear/Positive Displacement | 1,100 | 22.0 | 1,100 | 13,690 | 0.31 | 11,979 | 0.28 | 10,648 | 0.24 | 9,583 | 0.22 |
| Centrifugal | 1,500 | 22.5 | 1,125 | 14,001 | 0.32 | 12,251 | 0.28 | 10,890 | 0.25 | 9,801 | 0.23 |
| Gear/Positive Displacement | 1,500 | 30.0 | 1,500 | 18,669 | 0.43 | 16,335 | 0.38 | 14,520 | 0.33 | 13,068 | 0.30 |
| Centrifugal | 3,000 | 45.0 | 2,250 | 28,003 | 0.64 | 24,503 | 0.56 | 21,780 | 0.50 | 19,602 | 0.45 |
| Gear/Positive Displacement | 3,000 | 60.0 | 3,000 | 37,337 | 0.86 | 32,670 | 0.75 | 29,040 | 0.67 | 26,136 | 0.60 |
| Centrifugal | 4,000 | 60.0 | 3,000 | 37,337 | 0.86 | 32,670 | 0.75 | 29,040 | 0.67 | 26,136 | 0.60 |
| Gear/Positive Displacement | 4,000 | 80.0 | 4,000 | 49,783 | 1.14 | 43,560 | 1.00 | 38,720 | 0.89 | 34,848 | 0.80 |

Application Rates

| % Organic Matter ¹ | English (lb/ac) | Metric (kg/ha) |
|-------------------------------|-----------------|----------------|
| < 0.75 | 5,000 | 5,600 |
| ≥ 0.75 & < 1.5 | 4,500 | 5,040 |
| ≥ 1.5 & < 2.0 | 4,000 | 4,480 |
| ≥ 2.0 & < 5.0 | 3,500 | 3,920 |

For conversions:
 1 lb = 0.454 kg
 1 ac = 0.41 ha
 lb/ac x 1.12 = kg/ha
 1 kg = 2.20 lb
 1 ha = 2.47 ac

¹ Based on Soil Test Results. Refer to Profile's Soil Testing and Interpretation Guide for more information.



Solutions for your Environment™

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LOCATIONS & CONTACT INFO

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics
Stabilization Fabrics
Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basis, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS**