



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.

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

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 | Sq ft | Acres | Sq ft | Acres | 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™

PROFILE Products LLC
 750 W. Lake Cook Road, Suite 440
 Buffalo Grove, IL 60089
 (800) 508-8681
 www.profileproducts.com



U.S. Patents Pending
 Profile and Flexterra are registered trademarks of PROFILE Products LLC. ProGanics, Biotic Soil Media, BSM, HP-FGM, ProMatrix, EFM and Solutions for your Environment are trademarks of PROFILE Products LLC.