



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

**ProGanics Biotic Soil Media is mixed at a rate of 34 or 45 kilograms per 379 liters 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).<sup>1</sup>
- E.** Continue slowly filling tank with water while loading ProGanics at a rate of 45 kilograms per 379 liters of water in machines equipped with gear or positive displacement pumps, and 34 kilograms per 379 liters of water 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 flush equipment and/or repeat mixing and application sequence. Be sure to thoroughly purge pump and all lines of residual material from previous load with clear water prior to starting the next mixing and application cycle.

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 slightly<sup>2</sup> 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](http://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.

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

<sup>2</sup> Best results and more rapid drying are achieved at temperatures exceeding 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™ (BSM™)

Hydroseeder Pump Type	Tank Size (liters)	# of 22.7 kg bales	(kg)	3,920 kg/ha		4,480 kg/ha		5,040 kg/ha		5,600 kg/ha	
				m <sup>2</sup>	ha	m <sup>2</sup>	ha	m <sup>2</sup>	ha	m <sup>2</sup>	ha
Centrifugal	1,136	4.5	102	260	0.026	228	0.023	203	0.020	182	0.018
Gear/Positive Displacement	1,136	6.0	136	347	0.035	304	0.030	270	0.027	243	0.024
Centrifugal	2,271	9.0	204	521	0.052	456	0.046	405	0.040	364	0.036
Gear/Positive Displacement	2,271	12.0	272	694	0.069	607	0.061	540	0.054	486	0.049
Centrifugal	3,028	12.0	272	694	0.069	607	0.061	540	0.054	486	0.049
Gear/Positive Displacement	3,028	16.0	363	926	0.093	810	0.081	720	0.072	648	0.065
Centrifugal	4,164	16.5	374	955	0.095	835	0.084	742	0.074	668	0.067
Gear/Positive Displacement	4,164	22.0	499	1,273	0.127	1,114	0.111	990	0.099	891	0.089
Centrifugal	5,678	22.5	510	1,302	0.130	1,139	0.114	1,012	0.101	911	0.091
Gear/Positive Displacement	5,678	30.0	680	1,736	0.174	1,519	0.152	1,350	0.135	1,215	0.121
Centrifugal	11,356	45.0	1,021	2,603	0.260	2,278	0.228	2,025	0.202	1,822	0.182
Gear/Positive Displacement	11,356	59.9	1,361	3,471	0.347	3,037	0.304	2,700	0.270	2,430	0.243
Centrifugal	15,142	60.0	1,361	3,471	0.347	3,038	0.304	2,700	0.270	2,430	0.243
Gear/Positive Displacement	15,142	80.0	1,814	4,629	0.463	4,050	0.405	3,600	0.360	3,240	0.324

## Application Rates

% Organic Matter <sup>1</sup>	Metric (kg/ha)
< 0.75	5,600
≥ 0.75 & < 1.5	5,040
≥ 1.5 & < 2.0	4,480
≥ 2.0 & < 5.0	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

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



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