



# Metric Application Guide for Profile® Engineered Fiber Matrix™

## Engineered Fiber Matrix is mixed at a rate of 27 kilograms per 379 liters of water

Engineered Fiber Matrix (EFM) has been specially designed to be mixed in a low ratio of water to product. Follow the EFM Loading Chart and Application Guide closely. Not mixing enough EFM will water-down the slurry and compromise coverage during application and the performance of the formulation.

### Application / Loading Procedures

- A. Strictly comply with equipment Manufacturer's installation instructions and recommendations.** Use approved hydro-spraying machines with fan-type nozzle (50-degree tip) whenever possible to achieve best soil coverage. Apply from opposing directions to assure 100% soil surface coverage. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed the maximum recommendations as shown in the Slope Application and Slope Interruption Limits tables on the back page of these guidelines.
- B.** To ensure proper application rates, measure and stake area. For maximum performance, apply EFM as follows:<sup>1</sup>
1. Apply fertilizer with specified prescriptive agronomic formulations, seed and **EFM at a rate of 27 kilograms per 379 liters of water** over properly prepared surfaces.
  2. See loading chart on the back and confirm loading rates with equipment manufacturer. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.
- C.** Fill 1/3 of mechanically agitated hydroseeder with water. Turn pump on for 15 seconds and purge and pre-wet lines. Turn pump off.
- D.** Turn agitator on, open recirculation valve and load low density materials first (i.e. seed).<sup>2</sup>
- E.** Continue slowly filling tank with water while loading fiber matrix into tank.
- F.** Consult loading chart on the back to determine the number of bags to be added for desired area and application rate.
- G.** EFM should be completely loaded before water level reaches 75% of the top of tank.
- H.** Add fertilizer as water level approaches the top of the tank.
- I.** Top off with water and mix until all fiber is fully broken apart and hydrated (minimum of 10 minutes — increase mixing time when applying in cold conditions). This is very important to fully activate the bonding additives and to obtain proper viscosity.
- J.** Shut off recirculation valve to minimize potential for air entrainment within the slurry.
- K.** Slow down agitator and start applying with a 50-degree fan tip nozzle.
- L.** Spray in opposing directions for maximum soil coverage.

<sup>1</sup> Best results and more rapid curing are achieved at temperatures exceeding 60°F (15°C). Curing times may be accelerated in high temperature, low humidity, and windy conditions with product applied on dry soils.

<sup>2</sup> Do not add additional tackifiers or polymers to this pre-mixed formulation.

## Loading Chart for Profile's Engineered Fiber Matrix

Tank Size (liters)	# of 22.7 kg bales	(kg)	Displacement (liters)	2,800 kg/ha		3,360 kg/ha		3,920 kg/ha		4,480 kg/ha	
				m <sup>2</sup>	ha						
948	3	68	1,061	243	0.024	203	0.005	174	0.004	152	0.003
1,895	6	136	2,123	486	0.049	405	0.009	347	0.008	304	0.007
2,843	9	204	3,184	730	0.073	608	0.014	521	0.012	456	0.010
3,790	12	272	4,245	973	0.097	811	0.019	695	0.016	608	0.014
5,686	18	408	6,368	1,459	0.146	1,216	0.028	1,042	0.024	912	0.021
7,581	24	544	8,491	1,946	0.195	1,621	0.037	1,390	0.032	1,216	0.028
9,476	30	680	10,613	2,432	0.243	2,027	0.047	1,737	0.040	1,520	0.035
11,371	36	816	12,736	2,919	0.292	2,432	0.056	2,085	0.048	1,824	0.042
13,267	42	952	14,859	3,405	0.341	2,838	0.065	2,432	0.056	2,128	0.049
15,162	48	1,088	16,981	3,891	0.389	3,243	0.074	2,780	0.064	2,432	0.056

### Additional Notes:

- Rough surfaces (rocky terrain, cat tracks, ripped soils, etc.) may require additional product to achieve 100% coverage.
  - Be sure to allow for residual material in tank on subsequent applications.

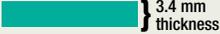
Application Rates	
Slope Condition	SI
≤ 4H to 1V	2800 kg/ha
≥ 4H to 1V and ≤ 3H to 1V	3360 kg/ha
≥ 3H to 1V and ≤ 2H to 1V	3920 kg/ha
≥ 2H to 1V and ≤ 1H to 1V <sup>1</sup>	4480 kg/ha
Slope Interruption Limits*	
Product Category	Length (m)
EFM	15

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

<sup>1</sup>EFM not recommended for slopes greater than 1H:1V.

\*Listed slope interruption limits are for product applications on a 3H:1V slope. For application on steeper slopes, slope interruption lengths may need to be decreased.

### Visual Key for Proper Application

Proper Application	Improper Application	3,360 kg/ha	3,920 kg/ha	4,480 kg/ha
				
		 } 3.4 mm thickness	 } 4.0 mm thickness	 } 4.6 mm thickness



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