



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 in a two-step process:¹
 - 1.** Apply fertilizer with specified prescriptive solutions and typically 50% of specified seed mix with a small amount of EFM for visual metering. Do not leave seeded surfaces unprotected, especially if precipitation is imminent.
 - 2.** Mix balance of seed and apply EFM at a rate of 27 kilograms per 379 liters (22.7 kg bale/316 liters) of water over freshly seeded surfaces. See loading chart on the back and confirm loading rates with equipment manufacturer.²
- 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).³
- 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.** 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.
- I.** Add fertilizer and any other remaining amendments.
- 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.
- M.** Upon completion of application, return to water source to repeat mixing and application sequence or to flush equipment.⁴ Thoroughly purge pump and all lines of residual materials from previous load. Monitor residual material in tank after purging; excess material may reduce number of bales to be mixed in subsequent loads.

¹ Depending upon site conditions, EFM may be applied in a one-step process where all components may be mixed together in a single tank load. Consult with manufacturer for further details.

² 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.

³ Do not add additional tackifiers or polymers to this pre-mixed formulation.

⁴ Always flush residual slurry from hydraulic seeding/mulching equipment immediately following each application, at the end of each work period or when equipment will be left unattended; compounds containing Urea, Nitrogen, Phosphorus, Potassium and macro/micronutrients may form and can be hazardous to human health and equipment.

Loading Chart for Profile's Engineered Fiber Matrix

Tank Size L (gal)	# of 22.7-kg bales	(kg)	Displacement L (gal)	2,800 kg/ha		3,360 kg/ha		3,920 kg/ha		4,480 kg/ha	
				m ²	ha	m ²	ha	m ²	ha	m ²	ha
946 (250)	3	68	1,060 (280)	243	0.024	202	0.020	173	0.017	152	0.015
1,893 (500)	6	136	2,120 (560)	486	0.049	405	0.040	347	0.035	304	0.030
2,839 (750)	9	204	3,180 (840)	728	0.073	607	0.061	520	0.052	455	0.046
3,785 (1,000)	12	272	4,240 (1,120)	971	0.097	809	0.081	694	0.069	607	0.061
5,678 (1,500)	18	408	6,359 (1,680)	1,457	0.146	1,214	0.121	1,041	0.104	911	0.091
7,571 (2,000)	24	544	8,479 (2,240)	1,942	0.194	1,619	0.162	1,387	0.139	1,214	0.121
9,464 (2,500)	30	680	10,599 (2,800)	2,428	0.243	2,023	0.202	1,734	0.173	1,518	0.152
11,356 (3,000)	36	816	12,719 (3,360)	2,914	0.291	2,428	0.243	2,081	0.208	1,821	0.182
13,249 (3,500)	42	953	14,839 (3,920)	3,399	0.340	2,833	0.283	2,428	0.243	2,125	0.212
15,142 (4,000)	48	1,089	16,959 (4,480)	3,885	0.388	3,237	0.324	2,775	0.277	2,428	0.243

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
≤ 3H to 1V	3,360 kg/ha
> 3H to 1V and ≤ 2H to 1V	3,920 kg/ha
> 2H to 1V and ≤ 1H to 1V ¹	4,480 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

¹ 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

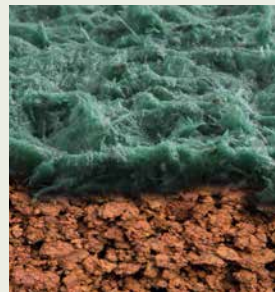


3,360 kg/ha



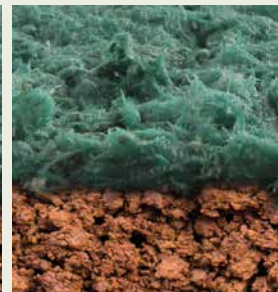
3.4 mm
thickness

3,920 kg/ha



4.0 mm
thickness

4,480 kg/ha



4.6 mm
thickness



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U.S. Patent #'s: 5,741,832; 5,779,782; 5,942,029; 6,158,167; 6,360,478; 7,752,804 and Patents Pending

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EFM-01m 10/19

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