

Hydro-Blanket[®] BFM Specification

The Bonded Fiber Matrix (BFM) shall be a hydraulically applied flexible erosion control blanket composed of long strand, thermally processed wood fibers and a proprietary crosslinked, hydro-colloid tackifier. The BFM may require a 24-48 hour curing period to achieve maximum performance. Once cured, the BFM forms an intimate bond with the soil surface to create a continuous, absorbent, flexible and biodegradable erosion resistant blanket that allows for rapid germination and accelerated plant growth.

The BFM shall be Hydro-Blanket[®] BFM, and conform to the following property values when uniformly applied at a rate of 3500 pounds per acre (3900 kilograms/hectare) under laboratory conditions.

	TEST METHOD ¹	ENGLISH	SI
PHYSICAL			
Mass Per Unit Area	ASTM D-6566	11.5 oz/yd ²	390 g/m ²
Thickness	ASTM D-6525	0.12 in	3 mm
% Ground Cover	ASTM D-6567	99%	99%
Water Holding Capacity	Profile Products ²	1350%	1350%
Cure Time	Observed	24-48 hr	24-48 hr
Color (fugitive dye)	Observed	Green	Green
ENDURANCE			
Functional Longevity	Observed	Up to 8 months	Up to 8 months
PERFORMANCE			
Cover Factor ³ (6 in/hr event)	ECTC Test Method #2	0.10	0.10
% Effectiveness ⁴	ECTC Test Method #2	90%	90%
Vegetation Establishment	ECTC Test Method #4	600%	600%

1. ASTM and ECTC (Erosion Control Technology Council) test methods developed for Rolled Erosion Control Products.

2. Water Holding Capacity test developed by Profile Products LLC.

3. Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.

4. % Effectiveness = One minus Cover Factor multiplied by 100%.

COMPOSITION

All components of the BFM shall be pre-packaged by the Manufacturer to assure material performance and in compliance with the following values. Under no circumstances will field mixing of additives or components be accepted.

Thermally Processed Wood Fibers – 79.5% ± 2.5%

Proprietary Crosslinked Hydro-Colloid Tackifier – 10% ± 1%

Moisture Content – 10.5% ± 1.5%

INSTALLATION

Strictly comply with 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 BFM from opposing directions to assure 95% soil surface coverage. Slope interruption devices or water diversion techniques are recommended when slope lengths exceed 70 ft (21m).

Erosion Control and Revegetation:

Step One: Apply seed, fertilizer and other soil amendments with a small amount of BFM for visual metering.

Step Two: Mix 50 lb of BFM per 125 gallons (23 kg/475 liters) of water over freshly seeded surfaces; confirm loading rates with equipment manufacturer.

SLOPE GRADIENT/CONDITION	ENGLISH	SI
≤ 3H to 1V	3000 lb/ac	3400 kg/ha
>3H to 1V and ≤ 2H to 1V	3500 lb/ac	3900 kg/ha
>2H to 1V and ≤ 1H to 1V	4000 lb/ac	4500 kg/ha
Below ECB or TRM	1500 lb/ac	1700 kg/ha
As infill for TRM	3500 lb/ac	3900 kg/ha

Consult comprehensive CSI formatted BFM specification for additional details.

PACKAGING

Bags: Net Weight - 50 lb, UV resistant plastic film.

Pallets: Weather-proof, stretch-wrapped with UV resistant pallet cover, 40 bags/pallet, 1 ton/pallet.