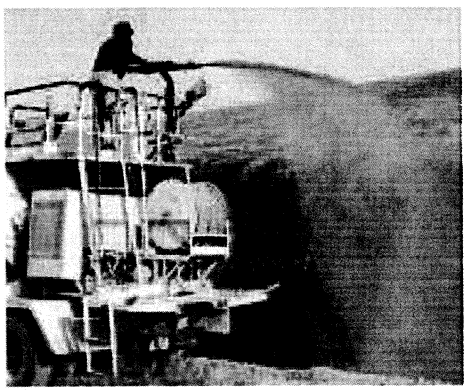
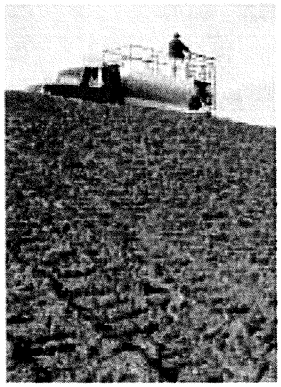
APPENDIX E

SUPPLEMENTAL INFORMATION FOR BFM MATERIAL

Hydro-Blanket® BFM

Bonded Fiber Matrix





The Best Slope Protection at the Lowest Overall Cost

HYDRO-BLANKET® BFM BONDED FIBER MATRIX CONTROLS EROSION ON STEEP SLOPES IN A QUICK, SAFE, EASY HYDRAULIC APPLICATION.

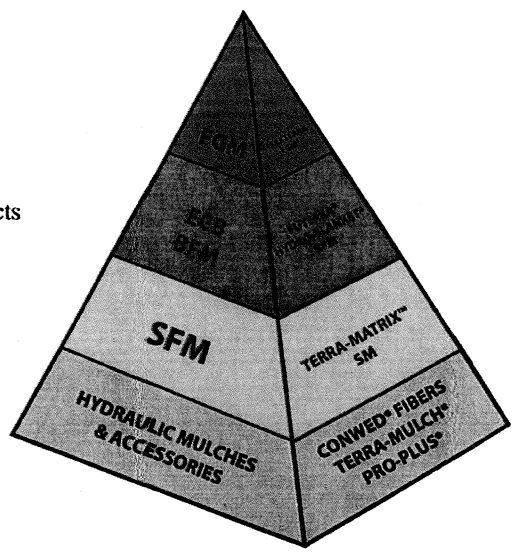
It is less expensive and faster to install than blankets or sod and more effective than blankets, competitive BFMs and conventional hydraulic mulches. Extensive testing proves that Hydro-Blanket BFM controls erosion more completely than competitive BFMs on steep slopes subjected to heavy rains. The combination of Thermally Refined™ wood fibers and multi-dimensional tackifiers provides greater water holding capacity for more complete germination and faster vegetation establishment. Proprietary cross-linked,hydro-colloid tackifiers and activators anchor the fiber mulch matrix to the soil surface.

HYDRO-BLANKET® BFM

- Dries to form a breathable, built-in-place blanket
- Contours with the surface to maintain intimate soil contact
- Less expensive and faster to install versus blankets or sod
- Environmentally safe and biodegradable
- Greater coverage than other BFMs for more cost-efficient application
- Replaces Conwed Fibers® Hydro-Mulch® 2500 and Terra-Mulch® BFM products

LEADING THE INDUSTRY

Profile Products LLC is the world's largest producer of erosion control blankets, hydraulic mulches, flexible growth media, bonded fiber matrices, storm water treatment devices and complementary accessories. Many of today's standards were innovations introduced by Profile. Those products, along with on-site consultation and on-going service comprise Profile Erosion Control Solutions™ (PECS). PECS is designed to help you find the most cost-effective means of controlling erosion, establishing vegetation and ensuring NPDES Phase II Compliance.



THE PROFILE PERFORMANCE PYRAMID
Hydro-Blanket is the industry's most effective BFM

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/yd²	390 g/m²
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.

Profile™

Your Trusted Partner In Soil Solutions

HBFM-01 2/05

For technical information call 1-866-325-6262. For distributor location and customer service call 1-800-366-1180.
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