



HYDROSTRAW® BONDED FIBER MATRIX CERTIFICATE OF COMPLIANCE

CERTIFICATE OF COMPLIANCE

Patents Pending

Manufacturer: HydroStraw, LLC 22110 S. State Route 27 Rockford, WA 99030

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HydroStraw, LLC certifies that HydroStraw® BFM contains the following properties and characteristics



DESCRIPTION

HydroStraw® Bonded Fiber Matrix is designed to be more cost effective than blankets and cost less to apply per acre than conventional BFM mulches on difficult sites, slopes and adverse soil conditions where extra erosion prevention is needed.

SPECIFICATIONS

The product includes long natural fibers for maximum matrix entanglement for improved performance.

The combination of fiber entanglement in conjunction with our cross linked high-strength polymer binders produce great erosion prevention and vegetation establishment.

HydroStraw® Bonded Fiber Matrix in field tests has shown that the annually renewable heat and mechanically treated straw fibers in this product improves seeds germination and vegetation establishment. Research has shown that vegetation is many times better than temporary mulches in erosion prevention. Thereby the ultimate goal is creating an environment for rapid vegetation establishment with seed friendly straw fibers.

HydroStraw® Bonded Fiber Matrix consists of annually renewable heat and mechanically treated straw fibers, environmentally safe, fibers that are biodegradable and a non-toxic green colorant to aid in application.

Field tests have shown HydroStraw® mulch protects soil and enhances seed germination and vegetation establishment as the fibers bio-degrades. (V.E.M. Vegetation Establishment Mulch)



WARRANTY

HydroStraw, LLC warrants that its products are free from defects and will perform as stated in this literature. If our product does not meet products specifications, notice of failure must be received within 15 days of failure. HydroStraw, LLC will not warrant that the product will perform under unlimited circumstances that are caused by soil conditions, installation, and/or weather variables.

Physical Characteristics	
Toxicity	Non Toxic
Applied Color	Green
Surface Tension	Material will evenly disperse and suspend when agitated in water
Absorbency	When sprayed uniformly at the recommended rate, the mulch fibers form an absorbent mulch cover which will allow percolation of water and increased water infiltration to the underlying soil matrix
Solubility	Mulch Fibers are Non Water Soluble
pH	6.8 +/- 0.5
Average Fiber Length	1/2" +/- 1/4" (1.27 cm +/- .64 cm)

Packaging and Shipping Data	
Bag Size	11.5" x 17" x 25" (29.2 x 43 x 63.5 cm)
Bag Weight	50 lb (22.7 kg)
Pallet	40 Bags, 52" x 45" x 96" (132 x 114 x 244 cm)
Full Truck	22 Pallets, 880 Bags
Packaging	Moisture Resistant Packaging

Composition	
Heat & Mechanically Treated™ (HMT) - Wheat Straw	68.0% +/- 1.0%
Natural Fibers	12.0% +/- 1.0%
Moisture	10.0 +/- 1.0%
Proprietary Tackifiers	10.0 +/- 1.0%

Mixture Rates	
Hose Work	60 lbs / 100 gallons (27 kg / 379 liters)
Tower Work	75 lbs / 100 gallons (34 kg / 379 liters)

*Hose Work Rate may vary dependent on hydroseeder type and/or size and length of hose used.

SLOPE GRADIENT / CONDITION	LB / ACRE	KG / HECTARE
≤ 3:1	3,000	3,350
≤ 2:1	3,500	4,000
≤ 1:1	4,500	5,050
Soil Moisture Retention	2000 - 3,500	2,250 - 4,000