



HYDROSTRAW® All In 1 CERTIFICATE OF COMPLIANCE

CERTIFICATE OF COMPLIANCE

Patents Pending

Manufacturer: HydroStraw, LLC · 22110 S. State Route 27 Rockford, Wa 99030
Toll Free: 800-545-1755 · Fax: 815-468-7450 · www.hydrostraw.com · info@hydrostraw.com

HydroStraw, LLC certifies that HydroStraw® All in 1 contains the following properties and characteristics



DESCRIPTION-

HydroStraw® All In 1 addresses the biological, chemical, and physical requirements for stabilizing and restoring vegetation on disturbed soil sites, as well as controlling erosion during vegetation establishment.

HydroStraw® All In 1 consists of heat and mechanically treated wheat straw fibers which are environmentally safe, biodegradable and produced from annually renewable materials combined with a non-toxic brown colorant as an application aid. The porous matrix of the wheat straw encourages water infiltration, enabling the new seedlings to easily pass thru the matrix. The combination of the wheat straw fibers together with our cross-linked high strength polymer binders provides effective erosion prevention and increased vegetation establishment.

HydroStraw® All In 1 includes all the benefits of our HydroStraw BFM plus 25% micronized natural fertilizers, biological inoculants and soil amendments which provide slow-release balanced nutrients for the new vegetation and promote the growth of soil microbes.

The biological inoculant system includes beneficial microbes and mycorrhizae fungi that increase the surface absorbing area of the roots 100 to 1,000 times. Beneficial bacteria are also added to jump start the microbial activity of the soil, as these microbes help the seedlings more efficiently absorb nutrients. Some of these bacteria help to release nitrogen, sulfur, phosphorus, and trace elements from soil organic matter, while others break down soil minerals and release potassium, phosphorus, magnesium, calcium and iron. Still other bacterial species make and release natural plant growth hormones, which stimulate root growth. Even though microbes are invisible to the naked eye their effects are far reaching as it relates to restoring soil health.

HydroStraw® All In 1 requires no additional infield mixing, resulting in a more accurately mixed slurry and compliance to application specifications.

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. 021215

Physical Characteristics	
Toxicity	Non-Toxic
Applied Color	Brown
Surface Tension	Material will evenly disperse and suspend when agitated in water
Absorbancy	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"

Packaging and Shipping Data	
Bag Size	11.5" x 17" x 25"
Bag Weight	50 lbs. - Compressed Bales
Pallet	40 bags (52W x 45D x 96H)
Full Truck	22 Pallets, 880 Bales
Packaging	Moisture resistant packaging

Composition	
Heat & Mechanically Treated (HMT™) - Straw	50.0% +/- 1.0%
Micronized Natural Fertilizers / Soil Amendments	25.0% +/- 1.0%
Moisture	10.0% +/- 1.0%
Natural Fibers	7.5% +/- 1.0%
Proprietary Tackifiers	7.5% +/- 1.0%

Mixture Rates	
Hose Work	75 lbs per 100 gallons*
Tower Work	100 lbs per 100 gallons

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

Slope Gradient/Condition	lb/acre
≤ 3:1	4,000 lbs/ac
≤ 2:1	5,000 lbs/ac
≤ 1:1	6,000 lbs/ac
Poor Soil Conditions	4,000 - 6,000 lbs/ac