



HYDROSTRAW, LLC CERTIFICATE OF COMPLIANCE

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Patents Pending

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

DESCRIPTION-

HydroStraw® Original is a hydraulically applied mulch with a specially formulated composition of annually renewable straw fiber, cellulose, natural fibers for fiber matrix entanglement, and a non toxic soil stabilizer.

SPECIFICATIONS-

The primary fiber shall be produced from annually renewable straw fiber; all fiber materials should be free from plastic materials or other non bio-degradable substances. Fiber shall be of such character that the fiber will disperse into a uniform slurry when mixed with water.. Fiber shall be colored green, and shall not stain concrete or other surfaces. Fiber and other mulch ingredients shall be free from growth or germination inhibiting ingredients. Mulch Fiber shall be applied as a slurry solution by means of hydroseeder.

MIXTURE RATES

- 60 lbs per 100 Gallons for hose work
- 75 lbs per 100 gallons for tower work

Increased performance can be achieved by mixing infield a hydro-colloid tackifier such as guar per manufacturer's recommended rates. It is imperative that the mulch be applied at the specified rate: too wet of a mixture will cause the fibers to be buried into soil. Mulch Fiber shall be applied as a slurry solution by means of hydroseeding. Mulch Fiber shall be applied at the specified rate per the specifications in a uniform manner. Care shall be exercised to ensure that the mulch application is uniform and even throughout the seeded area; mulch shall not be bunched or clumped up on the site. Care shall also be taken as to not create a shadowing effect on the site, mulch applications shall be started on the windward side of the project.



Physical Characteristics	
Toxicity	Non-Toxic
Applied Color	Green
Suface 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	06.8 +/- 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 Straw Fibers™ (HMT™)	80.0% +/- 1.0%
Cellulose Paper Mulch	5.0% +/- 1.0%
Natural Fibers for Matrix Entanglement	4.8% +/- 1.0%
Non-Toxic Soil Stabilizer	0.20% +/- 0.002%
Moisture Content	10.0% +/- 3.0%

Slope Gradient/Condition	lb/acre
≤ 4:1	2,000 lbs/ac
≤ 3:1	2,000 - 3,000 lbs/ac
≤ 2:1	3,000 - 4,000 lbs/ac

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.