

ENVIROSTRAW HYDRAULIC GROWTH MEDIA (HGM)



Enviro-Straw is a hydraulically applied BFM (Bonded Fibre Matrix) with a specially formulated composition of annually renewable straw and other fibre with an included AS4454-2012 soil conditioner and proprietary blended hydrocolloid binder. The fibre is thermally processed by raising the core temperature of the fibre to more than 90 degrees for a minimum 30 seconds ensuring all weed seeds are denatured and all bacteria and pathogens are destroyed. The mechanical processing mills the straw fibre to an average fibre length of 15 mm maximising fibre matrix entanglement. EnviroStraw HGM/BFM added legume fibre provides a long lasting organic nitrogen source including the growth stimulant triacontanol. EnviroStraw HGM/BFM has no toxic substances.

SPECIFICATIONS

The source fibre shall be produced from annually renewable blend of organic fibre's. Fibre will easily disperse into a uniform slurry when mixed with water. Fibre shall be of a natural straw colour & will not stain concrete or other surfaces. Fibre and other mulch ingredients shall be free from growth or germination-inhibiting ingredients. Mulch Fibre shall be applied in a slurry solution by means of hydro mulching

MIXTURE RATES (AS A GUIDE ONLY)

80 kgs per 1000 liters of water for hose work; 100 kgs per 1000 liters of water for tower work.

Increased performance can be achieved by mixing in field a cross-linked hydrocolloid tackifier such as HydroGrip plus, use at manufacturer's recommended rates. It is imperative that the mulch is applied at the specified rate: too wet of a mixture will cause the fibres to be buried into soil. Mulch Fibre shall be applied as a slurry solution by means of hydroseeding 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 Colour natural straw, Surface Tension Material will evenly disperse and suspend when agitated in water, Absorbency When sprayed uniformly at the recommended rate, the mulch fibres form an absorbent mulch cover which will allow percolation of water and increased water infiltration to the underlying soil matrix. Solubility Mulch Fibres are non-water soluble. Packed in: 20 kg bales plus +/- 1 kg per bale, 52 bales per pallet.

PHYSICAL COMPOSITION

Thermally processed organic fibers, including Straw, Lucerne, wood fibre	70%
Organic soil conditioner providing rich Humus building substances, Meets AS 4454-2012 standard	10%
Binders: Hydrocolloid Tackifier	8%
Non-Toxic	
Colour	Natural straw
Carbon to Nitrogen ration	< 50:1
Moisture level	< 15%
Organic carbon level	48%
C-Factor (tested by LandLoch Laboratories Towoomba)	0.001

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APPLICATION RATES (GUIDE ONLY)

These application rates are for standard conditions. Designers may wish to increase application rates on rough surfaces or in high rainfall areas.

Slope gradient	Application rate in kgs per hectare
> 4H - 1V & < 3H - 1V	3000 kgs
> 3H - 1V & < 2H - 1V	4000 kgs
> 2H - 1V & < 1H - 1V	5000kg
Below ECB or TRM	2500 kgs
As infill for TRM*	4000 kgs *Use only approved and tested TRMs

* Always consider local weather patterns, and always perform soil testing prior to application by a qualified soil specialist. Perform seed bed preparation via track rolling horizontal ripping.