

# ENVIROSTRAW HYDRAULIC GROWTH MEDIA (HGM)



EnviroStraw HGM is hydraulically applied mulch with a specially formulated composition of annually renewable straw fibre, mechanically processed to an average fibre length of 15 mm with added thermally processed wood fibre and recycled cellulose fibre enhancing water holding capacity and fibre matrix entanglement. EnviroStraw has an added legume and includes a soil conditioner that meets AS-4454-2012 providing a long-lasting slow release nitrogen source providing Nitrogen for up to 3 months with other key plant available nutrients/minerals and amino acids. EnviroStraw HGM has no toxic substances. EnviroStraw HGM is mechanically and thermally processed ensuring it is free from viable weed seeds and other pathogens and bacteria.

## SPECIFICATIONS

The source fibre shall be produced from annually renewable straw fibre; all fibre materials should be free from plastic materials or other non-bio-degradable substances. Fibre will easily disperse into a uniform slurry when mixed with water. Fibre shall be of a natural straw colour and 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 machinery.

## 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 & RECOMMENDED APPLICATION RATES

Heat treated & mechanically processed Straw/Legume fibre with thermally processed wood fibre and added cellulose fibre
< 5% AS4454-2012 soil conditioner.
15% Moisture (+/- 2%)
Carbon to nitrogen ratio < 50-1
Average Fibre Length 15 – 25 mm

Slope gradient	Application rate in kgs per hectare
< 4:1	2500kg
< 3:1	4000kg
< 2:1	5000kg