



## D.Col - GHM

### **Guar Gum for Hydro-Mulching**

D.Col – GHM is an ideal viscosifier for Hydro-Mulching and Hydro-Seeding Applications. It is fast hydrating guar gum that yields very high viscosity of above 4500 cps in 1% concentration. Its use is recommended for applications where fast hydration is needed, so that desired slurry could be made on site. Varying the volume of components in the slurry, various combination could be made on site for varying slopes.

D.Col – GHM has particles coarse enough to infiltrate the slurry and is less dusty. The medium particle size checks lumping and clogging of nozzle.

Other recommended uses of D.Col – GHM:-

- Tackifier for Lawns & Golf Courses
- Roadside revegetation
- Mining reclamation
- Soil stabilization
- Erosion Control

### Advantages :

- Cold-water Soluble
- Non –Toxic
- Non-Corrosive
- Better lubrication of fiber
- Easily cross-linkable
- Good bonding Strength
- High Viscosity
- Good Water retention
- Organic Product
- Helps in Germination

<u>Application rate :</u>	
Fibre Mulch Tacking	→ 18 – 20 Kg per Acre for normal slopes 26 – 30 Kg per Acre for greater slopes
Straw/ Hay Mulch Binding	→ 13 – 15 Kg per Acre
Soil Stabilization	→ 18 – 20 Kg per Acre 26 – 30 Kg per Acre for greater slopes
Mulch Slurry Lubricant	→ 0.4 – 0.5 Kg per 50 Kg. of Mulch



**Cross-linking\*** : - The composition of Hydro-Mulch slurry depends on many factors like Intensity of slope, type of land, desired viscosity, age of treatment etc. A general rule of thumb is greater the slope more should be the amount of guar gum in slurry. Cross-linking guar gum with metal ions further enhances the viscosity and fibre holding capacity. This helps in prolonging the age of the final product.

**Cross-linking agents:-** { The amount of Cross linker should be 1-8% of the weight of guar in slurry }

- Hydrated or plain Sodium Tetra Borate {Borax}
- Hydrated of plain Sodium Meta Borate

**pH Controller :-** { pH of solution should be between 8-11 for cross linking to take place.}

- Sodium Hydroxide
- Calcium Carbonate

**Colors** : Only chemically inert colors are recommended and that also up to 1% by w/w.

\* D.Col – GHM is ready to use, in case any cross-linking is required to prolong the age of treatment, use above cross-linking information.