Rainier Fiber™ Plus Tackifier

Manufactured from 100% Total Recovered Wood-Based Content

DESCRIPTION

Rainier Fiber™ Plus Tackifier is 100% virgin wood fiber mulch for use in hydraulic planting with the extra holding power of a tackifier. It is premium quality wood mulch, to which a high grade organic guar tackifier is added to enhance erosion protection. The fiber is consistent in size and texture for the most optimum performance.

When applied over the soil surface, the fibers tend to twist and lock with each other as they dry. With tackifier, the holding power of the fiber to the soil is stronger, thus providing increased erosion protection. The tackifier also holds the seeds in place and gives extra lubricity to the slurry, which makes pumping and application easier.

ADVANTAGES

- Stronger bonding of the fibers to the soil. Increased erosion protection.
- Pre-mixed guar tackifier disperses into slurry quickly for fast hydration.
- No gum balls as compared to adding tackifier directly in the tank.
- Extra lubricity from the tackifier makes the slurry pump easier.
- Eliminates the mess, waste and irritating dust that results from adding tackifier separately.
- All in one bag. Saves time in handling and mixing.

The manufacturing starts with clean, western softwood chips in which the fibers are separated in a high pressure defibration process that includes high temperature 177°C (350°F) steam and rubbing action. The process reduces the chips to long, soft fibers. This combination of selected softwood chips and thermo-mechanical refining produces the finest wood fiber mulch for hydroseeding and erosion control. In addition, the extreme heat and use of clean wood chips assures a sterile fiber to aid germination and growth of seed, stolons and sprigs.

Rainier Fiber™Plus Tackifier is fast to load in hydroseeding equipment from easy to handle plastic bags. The fibers are sized for maximum loading in a tank, and they make a homogeneous slurry of water, seed and fertilizer. The fibers remain in suspension during agitation and pumping, and the slurry does not dewater when doing hose work.

The added color makes the mixed slurry visible during application, even at maximum pumping distances. This allows the operator to apply an even application of material over the soil surface. The colorant added to the fiber during manufacture is non-toxic to animals, aquatic organisms, or fish and does not inhibit plant life. Caution should be used when spraying near concrete or buildings to prevent overspray from temporarily staining these items.

PRODUCT FEATURES

- Made from fresh cut, clean, western softwood chips.
- Guar gum tackifier is from natural organic plant seeds.
- Fiber stays in uniform suspension and blends with seed and fertilizer.
- High loading and goes into slurry quickly.
- Forms stable mulching mat and holds the seed in place.
- Provides favorable micro-climate for faster germination.
- Helps establish grasses for erosion control, as well as fine turf.
- Green color assists in even application. Color is non-toxic to animals, aquatic organisms, fish or plants.
- Mulch has no growth inhibiting factors.
- High temperature 177°C (350°F) steam processing sterilizes the fiber and kills all seeds.
- No viable noxious or other weed and plant seeds in the mulch. All seeds are sterilized.
- Fibers decompose after plants have been established.

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Rainier Veneer, Inc. PO Box 1250 Graham, WA 98338 T: 253-846-0242 F: 253-846-0220

PRODUCT SPECIFICATIONS

Rainier Fiber™ Plus Tackifier is manufactured to specific fiber sizes in a heat-controlled environment to provide best job-site performance. Clean wood chips are softened by high temperature 177º C (350º F) steam, and the pressurized thermo-mechanical refining process produces long, soft fibers. The resulting fibers have physical features that tend to intertwine with each other forming a protective mulching mat. *Rainier Fiber™ Plus Tackifier* is totally free from lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, and chlorine bleach. No bark, sawdust, cardboard, paper or paper by-products are introduced into the process and the fiber.

The Guar Gum Tackifier is a natural organic hydrocolloid derived from the seed endosperm of the guar gum plant (Cyanopsis tetragonoloba). The endosperm is ground and screened to a particle size proven best for field use. No additives are added in the processing of this natural polysaccharide, thus it retains its natural organic form.

Composition	**Test Method**	**Notes**	**Tested Value**
Thermo-Mechanical Refined Virgin Wood Fiber		(total weight basis)	97%
Guar Gum Tackifier		(total weight basis)	3%
Physical Properties	**Test Method**	**Notes**	**Tested Value**
Moisture Content	ASTM D 2974 / CA-Test 226	(total weight basis)	8.0% ± 3.0%
Organic Matter	ASTM D 586 AASHTO T-267	(oven dried weight basis)	99.8% ± 0.2%
Ash Content	AASHTO T267 / TAPPI T-413	(oven dried weight basis)	0.3%
pH @ 3% Concentration	SW846 9045D		4.5±0.5
Water Holding Capacity	ASTM D 7367*	(minimum)	1300%
Color	Observed		Green, Blue, No Dye
Fiber Length	ASTM D 7560	25%=10mm (3/8 inch)	
Sieve Retention	ASTM D 7560	50% retained on 25 mesh (710 µm) sieve	
Performance Properties	**Test Method**	**Notes**	**Tested Value**
Functional Longevity	Observed**		3 - 5 Months
Erosion Control Technology Council HECP Classification			Short Term
Maximum Slope Application	Observed		2.0H : 1.0V
Cure Time	Observed		24 to 48 Hours
Environmental Properties	**Test Method**	**Citation Method / Notes**	**Results**
Ecotoxicity	EPA 2019.0	96-hr LC50 > 100%	Pass / NOEC
Acute Toxicity	EPA-821-R-02-012	96-hr LC50 > 100%	Pass / NOEC
Biodegradability	ASTM D 5338		Pass
Heavy Metals	EPA 6020A	ND	Pass
Solvents	EPA 6020A	ND	Pass
Boron Content	EPA 6020A	< 100 ppm	Pass
Elemental Impurity Limits	EPA 1668	> 0.003 ppm	Pass
USDA BioPreferred	ASTM D6866	BioBased Content	***Pending***
Recommended Rates	**Pounds Per Acre**	**Kilogram Per Hectare**	
2.0H : 1.0V	2,500	2,800	
2.0H : 1.0V & steeper, use heavier application			
Packaging	**Dimensions**	**Quantity**	**Pallet Weight**
50 Pound Bale	10"x19"x29"Bale/48”x48”x102”	40 Bales Per Pallet	EST >2,100 lbs.

* Water Holding Capacity results are the average of the two most recent tests ** Functional Longevity is the estimated time period, based upon environmental & jobsite factors. For specific testing information please contact Tony Kopp for consultation at 509-368-0700

Load rates are up to 25 bags per 3000 gallons of water or 50 lbs of mulch per 120 gallons of water. These rates may vary depending on the machine. Instructions are on each bag.

FOR MORE INFORMATION PLEASE
CONTACT: Pinnacle Erosion Control Supply
Spokane, WA 99206
T: (509) 368-0700
tkopp@pnwpinnaclesupply.com
www.pnwpinnaclesupply.com

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