Rainier Fiber™ Plus Tackifier

PRODUCT DESCRIPTION

Rainier Fiber™ Plus Tackifier is a premium 100% virgin wood fiber mulch enhanced with high-grade organic guar tackifier for superior erosion control and seed stabilization. The consistent fiber size ensures uniform coverage, while the tackifier improves soil adhesion and slurry flow for easier application.

As the mulch dries, fibers twist and lock together, forming a durable mat that holds seed in place and protects against erosion. The added tackifier increases bonding strength, prevents clumping, and improves pump performance—making it cleaner and more efficient than adding tackifier separately.

Manufactured from clean western softwood chips, the fibers are refined using high-temperature steam (177°C / 350°F) in a pressurized process that sterilizes the product and promotes healthy germination. Packaged in easy-to-handle bags, the mulch mixes quickly into a consistent slurry that stays in suspension during agitation and hose application.

A non-toxic green colorant ensures even coverage without impacting seed growth or harming wildlife. Overspray may temporarily stain concrete or buildings.

KEY ADVANTAGES

- Stronger soil adhesion and erosion control
- Pre-mixed tackifier eliminates gum balls and mess
- Improved pumpability and application efficiency
- Saves time with all-in-one packaging
- Clean, safe, and easy to use

FEATURES

- Made from fresh-cut, clean western softwood chips
- Includes organic guar tackifier
- Fast-loading, mixes evenly with seed and fertilizer
- Forms a stable, protective mulch mat
- Enhances germination and turf establishment
- Colorant ensures uniform application; non-toxic to wildlife and plants
- Sterilized at 177°C (350°F); free of weed seeds or growth inhibitors
- Fully biodegradable—decomposes after plant establishment

PRODUCT SPECIFICATIONS

Rainier Fiber™ Plus Tackifier is produced to precise fiber dimensions in a controlled, high-temperature environment to ensure optimal job-site performance. Clean, western softwood chips are softened using 177ºC (350ºF) steam and refined through a pressurized thermo-mechanical process. This yields long, soft fibers that naturally interlock to form a durable mulching mat.

The product is free from bark, sawdust, cardboard, paper, and all paper by-products. It contains no lead paint, printing ink, varnish, petroleum products, chlorine bleach, or seed germination inhibitors—ensuring a clean, high-performance fiber.

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The guar gum tackifier is a natural, organic hydrocolloid derived from the endosperm of the *Cyanopsis tetragonoloba* (guar) plant. It is ground and screened to an optimal particle size for field performance, with no chemical additives—preserving its fully organic composition.

Composition	**Test Method**		**Tested Value**
Thermo-Mechanical Refined Virgin Wood Fiber		(total weight basis)	97%
Guar Gum Tackifier		(total weight basis)	3%
Physical Properties	**Test Method**		**Tested Value**
Moisture Content	ASTM D 2974 / CA-Test 226	(total weight basis)	12.0% ± 3.0%
Organic Matter	ASTM D 586 AASHTO T-267	(oven dried weight basis)	99.3% ± 0.2%
Ash Content	AASHTO T267 / TAPPI T-413	(oven dried weight basis)	0.03%
pH @ 3% Concentration	SW846 9045D		5.5±0.5
Water Holding Capacity (min)	ASTM D 7367*		1350%
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**		**Tested Value**
Functional Longevity	Observed**		3 - 5 Months
Erosion Control Technology Council HECP Classification			Short Term
Maximum Slope Application	Observed		3.0H : 1.0V
Environmental Properties	**Test Method**	**Citation Method / Notes**	**Results**
Ecotoxicity	EPA 2019.0 / 2021.0	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**	
≤4.0H : 1.0V	2,000	2,240	
>4.0H : 1.0V and ≤3.0H : 1.0V	2,500	2,800	
Packaging	**Dimensions**	**Quantity**	**Pallet Weight**
50 Pound Bale	10"x19"x29"Bale/48”x48”x102”Pallet	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.

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