

Rainier Fiber™



Rainier Fiber™ Premium Wood Fiber Mulch California Caltrans Specifications

DESCRIPTION

Rainier Fiber™ is 100% virgin wood fiber mulch for use in hydraulic planting and erosion control. It is premium quality wood mulch manufactured under constant quality control checks. The clean, whole wood chips are processed to make long strand fibers that enhance the performance of the mulch. There is no bark, sawdust, cardboard, paper or paper by-products introduced into the process and the fiber.

When applied over the soil surface, the fibers tend to twist and lock with each other as they dry. This forms a protective mulch mat to aid in erosion control, hold seeds in place, and provide a micro-climate to aid seed germination. After the seedlings have grown to sufficient size they, along with the mulch, will protect the soil surface to greatly reduce erosion and soil loss. In the final stages the fibers decompose, adding organic matter to the soil.

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™ 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 disperse into 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 fibers are colored green with a biodegradable, water-soluble, non-toxic colorant to help the operator apply the product uniformly. The colorant does not contain any copper, mercury or arsenic and will not permanently stain concrete or painted surfaces. Also, the fiber is free of synthetic and plastic fibers, lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, and chlorine bleach. There are no contaminants that will inhibit plant growth. The colored mulch fiber is non-toxic and not harmful to animal, aquatic organisms, fish or plant life, and it is completely biodegradable.

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.
- 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. Colorant is non-toxic to animals, fish or plant life.
- 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 established.

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PRODUCT SPECIFICATIONS

Rainier Fiber™ 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 177° C (350° F) steam, and the pressurized thermo-mechanical refining process produces long strand, soft fibers. A minimum of 25% of the fibers are 10 mm (3/8 inch) long and a minimum of 50% are retained on a 710 µm (No. 25) sieve. The resulting fibers have physical features that tend to intertwine with each other forming a protective mulching mat.

Organic Matter	(oven dry weight basis)	ASTM D2974	99.3% min.
Moisture Content	(total air dry weight basis)	Calif Test 226	12.0%±3.0%
Ash Content	(oven dry weight basis)	ASTM D2974	0.7% max.
pH at 3% concentration in water		EPA SW846 9045	.4.8+0.5
Moisture holding capacity		ASTM D7367	1,300% min
Boron Content		EPA SW846 6010B	<50 pp
Wood Fiber Length			Min. 25% = 3/8 inch (10 mm)
Sieve Retention			Min. 50% retained on a 25 mesh (710µm) sieve
Packaged in plastic bags. Nominal net weight			50 lbs.
Material Safety Data Class			Naturally occurring material

Rainier Fiber™ Premium Wood Fiber Mulch complies with the above process information and specifications and to Caltrans 2018 Standard Specifications, Section 21-2.02D Fiber.

Rainier Fiber™ is compressed and sealed in heavy duty plastic bags with a UV inhibitor. Each easy to open bag has a nominal weight of 50 lbs (22.7 kg) net and measures 10 x 19 x 29 inches. There are 40 bags/pallet which makes into a tight stretch-wrapped unit. 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.

COVERAGE

Green dye is added to help the applicator maintain uniform coverage during application. FMI recommends a minimum application of 1,800 pounds per acre on flat to 4H:1V slopes. For 3H:1V slopes use a heavier application. The best results to hold seed and mulch in place on any of the above slopes are provided by *Rainier Fiber™ Plus Tackifier*.

FOR MORE INFORMATION PLEASE CONTACT:

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