

Rainier Fiber™



Rainier Supreme™ Superior Erosion Protection

DESCRIPTION

Rainier Supreme™ consists of specially processed, extra long strand, virgin wood fibers along with a high-strength, non-toxic, hydrocolloid-based and cross-linked organic tackifier. This combination gives superior erosion protection without the addition of man-made synthetic plastic fibers which are not naturally biodegradable.

The system sprays on like mulch and forms a blanket that adheres to the soil surface immediately upon application. When dry, the blanket is porous, erosion resistant and protects the soil surface. The blanket retains its integrity and soil protection despite re-wetting for more than eighteen months. The extra long, woolly wood fibers form tent-like pockets which aids germination and plant growth. When applied over the soil surface the wood fibers twist and interlock with each other and the soil as they dry.

Rainier Supreme™ is 100% naturally biodegradable, has no plastic fibers added, and is non-toxic to animal, aquatic organisms, fish or plant life.

ADVANTAGES

- No man-made synthetic plastic fiber added. Wood fiber is 100% biodegradable.
- Greater than 99% effectiveness in controlling soil loss.
- Extra long wood fibers make a stronger mat,
- Plant growth increase greater than 635% versus bare soil.
- Mat blanket retains integrity after repeated rains.
- Conforms to all surface contours. Eliminates tenting and rilling.
- Pre-mixed fiber blended with cross-linked organic tackifier disperses quickly in slurry for fast hydration.
- High temperature 177°C (350°F) steam and pressurized, thermo-mechanical refining produces long fibers.
- No viable noxious or other plant seed in the fiber. All seeds are sterilized.
- Tackifier additive is homogeneously mixed with the fiber. It's all in one bag.

Rainier Supreme™ is fast to load in hydroseeding equipment from easy-to-handle plastic bags. The fibers 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 green color 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 animal, aquatic organisms, fish, or plant life.

PRODUCT FEATURES

- Made from specially selected, clean, wood chips.
- Fiber stays in uniform suspension and blends with seed and fertilizer.
- Goes into slurry quickly.
- Provides favorable micro-climate for fast seed germination.
- Pumps easy in hydromulching machines.
- Has no germination or growth inhibiting factors.
- Wood fibers decompose after plants have established.

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PRODUCT SPECIFICATIONS

Rainier Supreme™ is manufactured to specific fiber sizes in a controlled environment to provide best job-site performance. Specially selected wood chips are softened by high temperature 177°C (350°F) steam, and the pressurized thermo-mechanical refining process produces extra long, soft, woolly fibers. The fibers have physical features that tend to intertwine with each other, thus forming a more protective blanket. The fibers are totally free from lead paint, printing ink, varnish, petroleum products, seed germination inhibitors or chlorine.

Composition:	Refined wood fiber (total weight basis).....	90%
	Proprietary cross-linked tackifier (total weight basis)	10% min.
Moisture content	(total weight basis)..... ASTM D2974	12.0% ± 3%
Organic Matter	(oven dry weight basis)..... AASHTO T267.....	97.0%
Ash Content	(oven dry weight basis)..... ASTM D2974	3.0%
pH @ 3% concentration in water SW846 9045	4.8±0.5
Water holding capacity (minimum) ASTM D7367.....	1,350%
Color	Green
Fiber Length.....	ASTM D7560.....	Min 25% = 10mm (3/8 inch)
Sieve RetentionASTM D7560...Min 50% retained on a 25 mesh (710 µm) sieve	

PERFORMANCE PROPERTIES

Percent Effectiveness:	Test Method	ASTM D-6459	> 99%
Seed Germination Enhancement	Test Method	ASTM D-7322	>635%
Functional Longevity	Test Method	Observed	>18 mo
Erosion Control Technology Council	HECP Classification	Long Term

Rainier Supreme™ is compressed and sealed in heavy duty plastic bags that have a UV inhibitor. Each bag weighs 50 lbs. (22.7 kg) nominal and measures 10 x 19 x 29 inches. There are 40 bags per pallet which makes into a tight, stretch-wrapped unit.

APPLICATION RATES AND APPLICATION PROCESS

Recommended Rates are for typical field conditions where the slope has been stabilized and prepared for seeding.

3H: 1V	2,500 lbs/acre (2,800 kg/ha)
2.5H:1V	3,000 lbs/acre (3,370 kg/ha)
2H: 1V	3,500 lbs/acre (3,930 kg/ha)
1H:1V & steeper	4,000 lbs/acre (4,490 kg/ha)

Apply the fiber to make a uniform mat. Green color is added to help the applicator maintain uniform coverage. If more than 2,500 lbs/acre (2,800 kg/ha) is applied the spraying should be done in two applications. Allow enough drying time between applications so some dry spots are showing on the surface of the fiber. Spray from two directions to avoid light coverage, or shadowing, on the back side of ridges and depressions. Application works best when made in advance of rainfall to allow a short drying time.

FOR MORE INFORMATION PLEASE CONTACT:

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