

Rainier Fiber™



Rainier Supreme™
Superior Erosion Protection

DESCRIPTION

Rainier Supreme™ is a premium hydraulic mulch composed of specially processed, extra-long strand virgin wood fibers blended with a high-strength, non-toxic, hydrocolloid-based, cross-linked organic tackifier. This combination delivers exceptional erosion control without relying on synthetic or plastic fibers, which are not naturally biodegradable.

Applied like mulch, Rainier Supreme™ forms a cohesive blanket that bonds to the soil surface immediately. Once dry, the mat remains porous, erosion-resistant, and durable—retaining its protective integrity through multiple wetting and drying cycles for over 18 months. The extra-long, woolly fibers create tent-like pockets that promote moisture retention and enhance seed germination. As the mulch dries, the fibers twist and interlock with each other and the soil, further increasing surface stability.

Rainier Supreme™ is 100% naturally biodegradable and completely non-toxic to animals, aquatic life, and vegetation.

ADVANTAGES

- No synthetic or plastic fibers; wood fiber is fully biodegradable
- Greater than 99% effectiveness in controlling soil loss
- Extra-long fibers form a stronger, more stable mat
- Supports plant growth by more than 635% compared to bare soil
- Maintains structure and coverage after repeated rainfall
- Conforms to ground contours—prevents tenting and rilling
- Pre-mixed with tackifier for fast hydration and easy mixing
- Steam-processed at 177°C (350°F) for fiber sterilization and strength
- Free of viable noxious weeds or unwanted plant seeds
- One-bag solution—tackifier is fully integrated into the fiber

Rainier Supreme™ is packaged in easy-to-handle plastic bags and loads quickly into hydroseeding equipment. The fibers are engineered to create a consistent slurry when mixed with water, seed, and fertilizer. They remain in suspension during mixing and application and resist dewatering, even with extended hose work. A non-toxic green colorant is added to aid even visual coverage without harming wildlife or plant growth.

PRODUCT FEATURES

- Manufactured from specially selected, clean wood chips
- Maintains uniform suspension and blends easily with seed and fertilizer
- Quick-mixing for efficient slurry preparation
- Creates a favorable micro-climate for rapid seed germination
- Pumps easily through hydromulching equipment
- Free of growth-inhibiting substances
- Fully biodegradable—fibers break down after plant establishment

PRODUCT SPECIFICATIONS

Rainier Supreme™ is manufactured to precise fiber dimensions in a controlled environment for consistent field performance. Clean wood chips are softened using high-temperature steam (177°C / 350°F) and processed through a pressurized, thermo-mechanical refining system to produce extra-long, soft, woolly fibers. These fibers are designed to naturally intertwine, forming a dense, protective blanket on the soil surface. The product contains no bark, paper, synthetic additives, lead paint, printing ink, varnish, petroleum derivatives, seed germination inhibitors, or chlorine—ensuring a clean and high-performing erosion control solution.

Composition	Test Method		Tested Value
Thermo-mechanical refined virgin wood fiber		(total weight basis)	90%
Proprietary cross-linked tackifier & additive		(total weight basis)	10% min
Crimped wood fiber	Additive used in place	(total weight basis)	Not required
Micro-Pore Granules	Additive used in place	(total weight basis)	Not required
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 2974 / AASHTO T-267	(oven dried weight basis)	97.0% min
Ash Content	AASHTO T267 / TAPPI T-413	(oven dried weight basis)	3%
pH @ 3% Concentration	SW846-9045D		4.8±0.5
Water Holding Capacity (min)	ASTM D 7367	CA-DOT-TL-2176-1-76-36	> 1600%
Color	Observed		Green
Fiber Length	ASTM D 7560	25%=10mm (3/8 inch)	
Sieve Retention	ASTM D 7560	50% retained on 25 mesh (710 µm) sieve	
Mass / Unit Area	ASTM D 6566	5 Year Certification Reevaluation Pending	
Thickness	ASTM D 6525	5 Year Certification Reevaluation Pending	
Ground Cover	ASTM D 6567	5 Year Certification Reevaluation Pending	
Performance Properties	Test Method		Tested Value
Percent Effectiveness	ASTM D 6459 (mod)		> 99.9%
Vegetation Enhancement	ASTM D 7322		> 635%
Functional Longevity	Observed		> 18 Months
Erosion Control Technology Council HECF Classification			Long Term
Maximum Slope Application	Observed		≤ 0.25H : 1.0V
Cover Factor	Observed	5 Year Certification Reevaluation Pending	
Environmental Properties	Test Method	Citation Method	Results
Ecotoxicity / Acute Toxicity	EPA 2019.0	96-hr LC50 > 100%	Pass
Heavy Metals	SW846 8260D	ND	Pass
Solvents	SW846 8260D	ND	Pass
Boron Content	SW846 6010B	< 50 ppm	Pass
USDA BioPreferred BioBased	ASTM D6866	BioBased Content	Pending
Recommended Rates	Pounds Per Acre	Kilogram Per Hectare	
≤ 3.0H : 1.0V	2,500	2,800	
2.5H : 1.0V	3,000	3,370	
2.0H : 1.0V	3,500	3,930	
≥ 1.0H : 1.0V	≥ 4,000	4,490	
Packaging	Dimensions	Quantity	
50 Pound Bale Each	10" x 19" x 29"	40 Bales Per Pallet	

APPLICATION RATES & PROCESS

Recommended application rates are based on typical field conditions where the slope has been properly prepared and stabilized for seeding. Apply Rainier Supreme™ to create a uniform, continuous mat over the soil surface. A green colorant is added to assist applicators in achieving even coverage.

For application rates exceeding 2,500 lbs/acre (2,800 kg/ha), the material should be applied in two passes. Allow sufficient drying time between applications—some surface dry spots should be visible before the second coat is applied.

To ensure full coverage, especially in uneven terrain, spray from two opposing directions to eliminate light areas or shadowing behind ridges, rocks, or in depressions. For best results, apply Rainier Supreme™ prior to rainfall to allow time for initial drying and mat formation.

FOR MORE INFORMATION PLEASE CONTACT:

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