

# 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 tacifier. This combination gives superior erosion protection without the addition of man-made synthetic 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 well beyond twelve 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 and is non-toxic to fish and wildlife.

### **ADVANTAGES**

- Extra long wood fibers make a stronger mat, thus increasing erosion protection.
- Greater than 99% effectiveness in controlling soil loss.
- No man-made synthetic fiber--wood fiber is 100% biodegradable.
- Plant growth increase greater than 500% 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 guar tacifier disperses quickly in slurry for fast hydration.
- High temperature 177°C (350°F) steam and thermo-mechanical refining sterilizes the fiber.
- No viable noxious or other plant seed in the fiber. All seeds are sterilized.
- Tacifier 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. They 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 green dye added to the fiber during manufacture is non-toxic to fish and wildlife.

### **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.

**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 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.

Composition: Refined wood fiber (total weight basis).....	90%
Proprietary cross-linked tacifier (total weight basis).....	10% min.
Moisture content (total weight basis)..... ASTM D-644 .....	12.0% ± 3%
Organic Matter (oven dry weight basis)..... AASHTO T267.....	97.0%
Ash Content (oven dry weight basis)..... ASTM D-586 .....	3.0%
pH @ 3% concentration in water .....	SW846 9045 .....
Water holding capacity (minimum) .....	ASTM D-7367..... 1,500 gms.
Color .....	Green

**PERFORMANCE PROPERTIES**

Percent Effectiveness:	Test Method ASTM D-6459 .....	> 99%
Seed Germination Enhancement	Test Method ASTM D-7322 .....	>500%
Functional Longevity	Test Method Observed .....	>18 mo
Erosion Control Technology Council HECF 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.

4H: 1V or less	2000 lbs/acre
4H: 1V to 3H: 1V	2200 to 2500 lbs/acre
3H: 1V to 2.5H: 1V	2500 to 3000 lbs/acre
2.5H: 1V to 2H: 1V	3300 to 3500 lbs/acre
1H: 1V & steeper	3500 to 4000 lbs/acre

Apply the fiber to make a uniform mat. Green dye is added to help the applicator maintain uniform coverage. If more than 2500 lbs/acre 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 should be made sufficiently in advance of rainfall to allow a short drying time.

**FOR MORE INFORMATION PLEASE CONTACT:**

**FMI SALES**  
 11111 EAST TRENT  
 SPOKANE, WA 99206  
 800-426-6002 or 509-927-4071  
 FAX: 509-927-2330  
[www.fmisales.com](http://www.fmisales.com)