

# Rainier Fiber™



## **Rainier Fiber™ Stabilized Mulch Matrix**

### **DESCRIPTION**

*Rainier Fiber™ Stabilized Mulch Matrix* consists of long strand 100% virgin wood fibers along with a high strength, non-toxic, hydrocolloid-based and cross-linked organic tacifier giving the product extra holding power. The system sprays on like mulch and forms a blanket that adheres to the soil surface. When dry, the blanket matrix is porous, erosion resistant and protects the soil surface. The matrix retains its integrity and soil protection despite re-wetting. When applied over the soil surface, the wood fibers twist and interlock with each other and the soil as they dry. With the added tacifier, the holding power of the fiber to the soil is much stronger than mulch without tacifier, thus providing increased erosion protection.

*Rainier Fiber™ Stabilized Mulch Matrix* is 100% biodegradable and is non-toxic to fish and wildlife.

### **ADVANTAGES**

- Stronger bonding of the fibers to the soil, increasing erosion protection.
- No synthetic or plastic fibers, which do not naturally biodegrade, are added to the fiber.
- Mat blanket retains integrity after repeated rains.
- Conforms to all surface contours. Eliminates tenting and rilling.
- Has no germination or growth inhibiting factors.
- 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 hydrates quickly in the slurry.
- Tacifier additive is homogeneously mixed with the fiber. It's all in the same bag.

*Rainier Fiber™ Stabilized Mulch Matrix* 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 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 green dye added to the fiber during manufacture is non-toxic to fish or wildlife.

### **PRODUCT FEATURES**

- Made from selected, fresh cut, clean, 100% whole wood chips.
- Fiber stays in uniform suspension and blends with seed and fertilizer.
- Goes into slurry quickly.
- Forms a stable erosion control mat.
- Provides favorable micro-climate for fast seed germination.
- Pumps easy in hydromulching machines.
- SMM has no growth inhibiting factors.
- Fibers decompose after plants have established.

**PRODUCT SPECIFICATIONS**

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

Composition: Refined virgin wood fiber (total weight basis).....	95%
Proprietary cross-linked binder (total weight basis).....	5% min.
Moisture content (total weight basis)..... ASTM D-644 .....	12.0% ± 3%
Organic Matter (oven dry weight basis)..... ASTM D-586 .....	97.0%
Ash Content (oven dry weight basis)..... ASTM D-586 .....	3.0%
pH @ 3% concentration in water .....	SW846 9045 4.8±0.5
Water holding capacity (minimum) .....	ASTM D-7367 1,300 gms.
Color .....	Green

**PERFORMANCE PROPERTIES**

Percent Effectiveness:	Test Method: ASTM D-6459 (modified).....	> 95%
Seed Germination Enhancement	Test Method ASTM D-7322 .....	>500%
Functional Longevity	Test Method Observed .....	>8 Mo
Erosion Control Technology Council HECP Classification .....		Extended Term

**PACKAGING**

The SMM is compressed and sealed in heavy duty plastic bags that have a UV inhibitor. Bag weight is a nominal 50 lbs. (22.7 kg) net and measures 10 x 19 x 29 inches. There are 40 bags per pallet which is made into a tight, stretch-wrapped unit.

**APPLICATION**

Recommended Rates: 2,500 lbs/acre – 3H:1V slopes  
 3,000 lbs/acre -- 2H: 1V slopes.  
 3,300 to 4,000 lbs/acre – slopes steeper than 2H: 1V  
 depending on site conditions.

Apply the SMM to make a uniform mat. Green dye is added to help the applicator maintain uniform coverage. Spray from two opposite directions to avoid light coverage, or shadowing, on the back side of ridges, rocks and depressions. Application should be made sufficiently in advance of rainfall to allow some drying time. Allow enough drying time between applications so some dry spots are showing on the surface of the mat.

**FOR MORE INFORMATION PLEASE CONTACT:**

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