

# Rainier Fiber™



## **Rainier Fiber™ Bonded Fiber Matrix**

### **DESCRIPTION**

*Rainier Fiber™ Bonded Fiber Matrix* is made from clean, western softwood chips. Added to the long strand 100% virgin wood fibers is a high strength, non-toxic, hydrocolloid-based and cross-linked organic tackifier giving the product extra holding power. *No synthetic or plastic fibers*, which are not naturally biodegradable, are added or blended into the pure wood fiber.

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 tackifier, the holding power of the fiber to the soil is much stronger than mulch without tackifier, thus providing increased erosion protection.

*Rainier Fiber™ Bonded Fiber Matrix* is 100% biodegradable and is non-toxic to animal, aquatic organisms, fish or plant life.

### **ADVANTAGES**

- No synthetic or plastic fibers, which do not naturally biodegrade, are added to the fiber.
- Stronger bonding of the fibers to the soil, increasing erosion protection.
- 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.
- Tackifier hydrates quickly in the slurry.
- Tackifier additive is homogeneously mixed with the fiber. It's all in the same bag.

*Rainier Fiber™ Bonded Fiber 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 colorant added to the fiber during manufacture is non-toxic to animal, aquatic organisms, fish or plant life.

### **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.
- BFM has no growth inhibiting factors.
- Fibers decompose after plants have established.

**PRODUCT SPECIFICATIONS**

*Rainier Fiber™ Bonded Fiber 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. The fibers have physical features that tend to intertwine with each other, thus forming a more protective blanket. The BFM 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).....	90%
Proprietary cross-linked tackifier (total weight basis).....	10% min.
Moisture content (total weight basis)..... ASTM D 2974.....	12.0% ± 3%
Organic Matter (oven dry weight basis)..... ASTM D 2974.....	97.0%
Ash Content (oven dry weight basis)..... ASTM D 2974.....	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
Fiber Length.....	Min.25%=10mm (3/8 inch)
Sieve Retention.....	Min.50% retained on a 25 mesh (710 µm) sieve

**PERFORMANCE PROPERTIES**

Percent Effectiveness:	Test Method: ASTM D-6459 (modified).....	> 99%
Seed Germination Enhancement	Test Method ASTM D-7322 .....	>599%
Functional Longevity	Test Method Observed .....	>12Mo
Erosion Control Technology Council HECP Classification .....		Long Term

**PACKAGING**

The BFM 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 are for typical field conditions where the slope has been stabilized.

3H: 1V to 2.5H: 1V	2500 to 3000 lbs/acre (2800 to 3360 kg/ha)
2.5H: 1V to 2H: 1V	3000 to 3300 lbs/acre (3360 to 3695 kg/ha)
1.5 H: 1V to 1.0H:1V	3300 to 3500 lbs/acre (3695 to 3920 kg/ha)
1H: 1V & steeper	3500 to 4000 lbs/acre (3920 to 4480 kg/ha)

.Apply the BFM to make a uniform mat. Green color is added to help the applicator maintain uniform coverage. If more than 2500 lbs/acre (2800 kg/ha) is applied the spraying should be done in two applications. Spray from two opposite directions to avoid light coverage, or shadowing, on the back side of ridges, rocks and depressions. Application works best when BFM is sprayed 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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