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Quality Erosion Control Products

CERTIFICATE OF COMPLIANCE and MANUFACTURING SPECIFICATIONS FLEX GUARD® EROSION CONTROL SYSTEM

Mat, Inc. certifies that Flex Guard® has the properties and characteristics outlined below. Flex Guard® is a Fiber Reinforced Matrix (FRM) hydraulic mulch produced by Mat, Inc. It is made from 82% wood, 5% synthetic fibers with an added binder for increased erosion control. The wood fiber is thermally pasteurized to 350° F and mechanically defibrated. Flex Guard® is manufactured to contain a specified range of fiber lengths, with a minimum of 25% of the fibers averaging .4 inches long and with 50% or more retained on a Clark fiber Classifier 24-mesh screen (a dry screening classification of fiber length). Mat, Inc. packages Flex Guard® in durable plastic or paper bags measuring 9"x18"x36", weighing 50 pounds net each.

Flex Guard® disperses rapidly in water and remains in uniform suspension under agitation. It blends with seed, fertilizer and other approved and specified materials forming a homogeneous slurry. When applied with hydraulic planting equipment, the fibers form a continuous and strong, moisture holding mat.

The binder is formulated from Five elements:

1. A polysaccharide guar, commonly used in the erosion control industry
2. A standard agricultural fertilizer
3. A slow release fertilizer
4. A soil stabilizer
5. Dispersable synthetic fibers

Flex Guard's® cross-linking binder does not contain heavy metals in it's chemistry. The binder provides added bonding among the fibers to hold soil, seed and fertilizer in place for rapid germination and growth. Upon drying, the binder becomes water insoluble and remains biodegradable, creating an effective erosion control blanket.

Uniform application of Flex Guard® is facilitated by coloring the fibers green, using a water soluble, non-toxic dye. The product may be dyed yellow as per special orders.

Wood fiber:	> 82%
Guar gum tackifier:	< 9%
Synthetic fibers	4±1 %
Trade secret:	<1%
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Green dye:	<1%
Moisture content:	12% ± 3

Flex Guard® is fully biodegradable and non-toxic. The material enriches the soil as it degrades leaving no residue. It is safe for wildlife and the environment.

Flex Guard® has been evaluated at the Mat, Inc. Quality Control Center in Floodwood, Minnesota. Product properties are determined using test methods that are scientifically sound and reliable to the best of our knowledge. Other test methods may produce slightly different results.

Joseph T. Karpik
President