



Quality Erosion Control Products

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BONDED FIBER MATRIX SPECIFICATIONS

The Bonded Fiber matrix (BFM) shall be manufactured to be hydraulically applied, and upon drying, adheres to the soil in the form of a continuous, 100% coverage, biodegradable, erosion control blanket.

Material Properties

The Bonded Fiber Matrix shall be comprised of a long strand, thermally produced wood fibers passing a freeness test at a 760 cc (MLS) level or below (>88% of total volume by weight) held together by organic tackifiers (10%) and mineral bonding agents (>2%) which upon drying, become insoluble and non- dispersible.

The matrix which forms shall be designed, tested and proven to perform in a manner equal or superior to biodegradable erosion control blankets (ECB's). Documentation of testing at an independent university laboratory shall be provided which demonstrates superior performance as measured by reduced water runoff, reduced soil loss, and faster plant germination, as compared to erosion control blankets. The formed matrix shall meet the following requirements:

1. The material, when mixed into a liquid slurry, shall pass a free liquid quality control test (liquids separate from fibrous solids no greater than one inch in one minute's time as measured on a standard test board)
2. The binder shall not dissolve or disperse upon rewetting. 3. The matrix shall have no holes > 1mm in size.
4. The matrix shall have no gaps between product and the soil.
5. The matrix shall have minimum water holding capacity of 1000g/1 00g (1.2 gal/lb matrix).
6. The matrix shall have no germination or growth inhibiting factors and shall not form a water insensitive crust. 7
7. The matrix shall be comprised of materials which are 100% biodegradable and 100% beneficial to plant growth.

Installation

The Bonded Fiber Matrix (BFM) shall be installed by a contractor certified by the manufacturer to be trained in the proper procedures for mixing and application of the product. The BFM shall be mixed according to manufacturer's recommendations and contractor shall demonstrate "free liquid" test to inspector upon request. Bonded Fiber Matrix shall be spray-applied at a rate of 3,000-4,000 lb/acre, utilizing standard hydraulically seeding equipment in successive layers as to achieve 100% coverage of all exposed soil. The BFM shall not be applied immediately before, during or after rainfall, such that the matrix will have opportunity to dry for up to 24 hours after installation.

Submittals

Contractor shall provide evidence of manufacturer's certification and material samples to inspector seven days prior to installation.