



## EarthGuard Fiber Matrix

EarthGuard® Fiber Matrix is a high-performance hydraulic erosion control product (HECP). This product is engineered and manufactured utilizing a consistent and specific raw ingredient material source. The temperature-controlled environment aids the manufacturing process to produce consistent fibers sizes and characteristics essential for high performance HECP to control erosion and assist in revegetation work.

### EarthGuard Fiber Matrix Composition:

- Thermally Processed Virgin Wood Fiber – approximately 90%
- Proprietary binder / activating agents blend – approximately 10%
- Green Dye -- < 1%
- Moisture Content is approximately 8% +/- 1 %
- Water Holding Capacity (100 grams over dry fiber) - 1,300 grams
- Each Bale is compressed and sealed with UV inhibited heavy plastic.
- Each Bale weighs 50 pounds (22.7 kg), 40 bales are stacked and stretch wrapped to a pallet.
- contains an anionic polyacrylamide soil flocculant additive with a molecular weight 12-25 x 10<sup>6</sup> g mole<sup>-1</sup>, a charge density ≥ 30%, and a minimum of 1%, by weight, prepackaged in a hydromulch bag.

### AASHTO/NTPEP Erosion Control Testing

EarthGuard® Fiber Matrix has been tested by AASHTO/NTPEP and been found to be one of the highest performing erosion control products tested outperforming other Flexible Growth Mediums.

AASHTO/NTPEP Hillslope Erosion Control Testing results:

- c-factor: 0.001
- Percent Effectiveness: 99.9% - Tested at 3000 lb/ac application rate)
- Test Report:  
[http://www.ntpep.org/Documents/Technical\\_Committee/ECP/Reports/Terra%20Novo/ECP-2014-02-002-366-EarthGuardFM-Slope-Nov14.pdf](http://www.ntpep.org/Documents/Technical_Committee/ECP/Reports/Terra%20Novo/ECP-2014-02-002-366-EarthGuardFM-Slope-Nov14.pdf)

### General Application Guidelines\*:

- VADOT HECP Type 3 apply at 2,500 lbs/acre
- VADOT HECP Type 4 apply at 3,000 lbs/acre
- \* All areas should be evaluated specific sight conditions

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