

SECTION 02926

FIBER MULCH AMENDMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a spray-applied crimped synthetic fiber that interlocks with each for a strong mechanical bond within the fiber mulch matrix enhancing the erosion control performance of hydraulically applied fiber mulches. [fiber mulch binding.] [straw and hay mulch binding.]
- B. Related Sections: Other Specification Sections, which directly relate to the work of this Section, include, but are not limited to, the following:
 - 1. Section 01570 - Temporary Erosion and Sediment Control.
 - 2. Section 02300 - Earthwork; establishment of subgrade
 - 3. Section 02370 - Erosion and Sedimentation Control.
 - 4. Section 02920 - Lawns and Grasses.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PROFILE Products LLC, 750 Lake Cook Road – Suite 440, Buffalo Grove, IL 60089, 800-366-1180 (Fax 847-215-0577)

2.02 MATERIALS

- A. Fiber Mulch Amendment: FIBERLOCK™ by PROFILE Products LLC with the following characteristics:
 - 1. Materials: Crimped Polyester Fibers ½ inch staple lengths
 - 2. pH Range: 6.75 plus or minus 0.3.
 - 3. Fiber Diameter: 4.5 Denier
 - 4. Surface Tension: 62.3 Dynes / cm
 - 5. Patents: 5,942,029
 - 6. Packaging: 10-pound case shipped 60 cases per 48 x 48 pallet.

PART 3 EXECUTION

GUIDE SPECIFICATIONS FOR PROFILE FIBERLOCK™(FORMERLY LABELED AS LOCKING FIBER)

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where materials will be applied. Do not proceed with installation until unsatisfactory conditions are corrected, only apply product to geotechnically stable slopes that have been designed and built to divert the water shed away from the face of the slope, therefore eliminating surface flow energy from above from damaging the slope face.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines. Do not exceed maximum slope length of 35 feet when slope gradients are steeper than 4 to 1. Install materials at the following application rate:
 - 1. Fiber Mulch Binding:
 - a. 3 to 1 Slope: 20 pounds per acre.
 - b. Greater than 2 to 1 Slope: 20 pounds per acre.
 - c. Less than 4 to 1 slope: 20 pounds per acre
 - 2. Straw and Hay Mulch Binding:
 - a. 20 pounds Locking Fibers and 150 lbs of cellulose fiber to 800 gallons of water per acre.
 - b. 10 pounds of Locking Fibers and 300 lbs of cellulose fiber to 800 gallons of water per acre.

3.03 CLEANING AND PROTECTION

- A. Clean spills promptly. Advise Owner of methods for protection of sprayed areas.

END OF SECTION

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