

SECTION 02925

BONDED FIBER MATRIX

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a spray-applied bonded fiber matrix wood fiber mulch with pre-mixed tackifier for a strong chemical bond within the fiber matrix for [hydro-seeding.]
- 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. Bonded Fiber Matrix: Conwed Fibers 2500 BFM by PROFILE Products LLC with the following characteristics:
 - 1. Materials: Wood fiber, Polysaccharide crosslinked hydro-colloid polymer tackifier, dark green dye.
 - 2. pH Range: 4.8 plus or minus 2.
 - 3. Moisture Content: 12+-3% percent maximum.
 - 4. Wood Fiber Content: 90 percent maximum.
 - 5. Polysaccharide Crosslinked Hydro-colloid Polymer Tackifier: 10+-1%
 - 6. Organic Content: 99 percent, plus or minus 1.
 - 7. Ash Content: 1 percent, plus or minus 1.
 - 8. Water Holding Capacity: 1,350 percent minimum.
 - 9. Fiber Mulch Slurry Viscosity: Minimum 2.85 cps (Test Method: Falling Ball Viscometer)
Test condition 1500 lbs of fiber mulch per 3000 gallons of water, evaluated immediately after

GUIDE SPECIFICATION FOR CONWED FIBERS 2500 BFM

- mixing.
10. Packaging: 50 pound UV resistant bags, with UV resistant pallet cover.

PART 3 EXECUTION

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. Apply Conwed Fibers 2500 BFM from opposing directions to soil surface, reducing the "shadow effect" and assures soil surface coverage of a minimum of 99%. Do not exceed maximum slope length of 70 feet when slope gradients are steeper than 4 to 1. Install materials at the following application rate:

1. Hydro-Seeding: Add 30 to 50 pounds of Conwed Fibers 2500 BFM fiber per 100 gallons of water when hydroseeding; confirm loading rates with equipment manufacturer.
 - a. Mod to 3 to 1 Slope: 3000 pounds per acre.
 - b. 2 to 1 slope: 3500 pounds per acre
 - c. Greater than 1 to 1 Slope: 4000 pounds 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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1/1/03