

SECTION 02926

STRAW AND FIBER MULCH BINDERS

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a spray-applied non-asphaltic tacking emulsion for [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, 800-726-6371 (Fax 847-215-0577)

2.02 MATERIALS

- A. Tacking Emulsion: Terra-Mulch Tacking Agent 3 by PROFILE Products LLC with the following characteristics:
  - 1. Materials: Polyacrylamide, acrylamide copolymer, hydro-colloid polymers, marker dye.
  - 2. pH Range: 7.0 plus or minus 0.2.
  - 3. Surface Tension: 73.9 dynes/cm, based on simulated field application after 5 minutes of mechanical agitation.
  - 4. Viscosity: 102 CPS plus or minus 2, Saybolt value, based on 30 pounds per 1000 gallons of water and 197 CPS plus or minus 2, Saybolt value, based on 60 pounds per 1000 gallons of water, based on simulated field application after 5 minutes of mechanical agitation.
  - 5. University tested to reduce erosion 68.6% and reduce water runoff 21.7% on a 45% slope without having to cure (dry out), effective immediately after hydro-seeding application.
  - 6. Packaging: 8, 25, and 50 pound bags.

## GUIDE SPECIFICATIONS FOR TERRA-MULCH TACKING AGENT 3

### 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. 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. Mod to 5:1 Slope: 20 pounds per acre.
    - b. 4:1 to 3:1 Slope: 30 pounds per acre.
    - c. 3:1 to 2:1 Slope: 40 pounds per acre.
    - d. Greater than 2 to 1 Slope: 60 pounds per acre.
  - 2. Straw and Hay Mulch Binding: 30 pounds Tacking Agent III and 150 pounds cellulose fiber per 1000 gallons of water per acre, or 50 pounds Tacking Agent III per 1000 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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