

SECTION 02371

SOIL AND FIBER MULCH STABILIZER

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a spray-applied non-asphaltic soil stabilizing emulsion for [fiber mulch binding.] [straw and hay mulch binding.] [soil stabilization.]
- 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, 800-654-8793 (Fax 847-215-0577)

2.02 MATERIALS

- A. Soil Stabilizing Emulsion: PROFILE FloccLoc by PROFILE Products LLC with the following characteristics:
 - 1. Materials: Linear Anionic Polyacrylamide (PAM)
 - 2. pH Range: 6.8 plus or minus .2.
 - 3. Viscosity: .5% solution, 2 minutes 143 cps, 5 minutes 840, 15 minutes 1950 cps, 30 minutes 2650 cps, #2 spindle, Brookfield RVT Viscometer, 20 rpms.
 - 4. Charge density: Minimum 30% anionicity
 - 5. Molecular weight: Minimum 12.0 mg/mole
 - 6. NSF/ANSI Standard 60: Approved for use; NSF International Drinking Water Treatment Chemicals-Health Effects
 - 7. LD/50: oral/rat > 5.0g/kg
 - 8. Fish ecological toxicity data: LC/50/Deneo rerlo/96hr > 100 mg/L (OECD 203)
 - 9. Algae ecological toxicity data: IC/50/Scenedesmus Subspicatis/72 hr > 100 mg/L (OECD 201)
 - 10. Daphnia ecological toxicity data: EC/50/Daphnia magna/48 hr . 100 mg/L (OECD 202)
 - 11. Packaging: 3 pound plastic jug, six (6) per case, 63 cases per pallet.

GUIDE SPECIFICATIONS FOR PROFILE POLY-PLUS BINDER

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. Install materials at the following application rate:
 - 1. Fiber Mulch Binding:
 - a. mod to 4/1 Slope: 3 pounds FloccLoc per acre, < 3/1 slope 4.5 pounds of FloccLoc per acre.
 - 2. Soil Stabilizing: 4.5 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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