

Flocculants Coagulants



DEFINITION Flocculants and Coagulants (F-Co) are technology used to assist in the clarification of turbid water.

As suggested it is recommended to have a test to determine the optimum dosage of flocculant/coagulant for the water.

Coagulation and Flocculation occur in succession. First the heavy stabilizing suspended particles are neutralized allowing particles to meet, coagulate and secondary to form flocs, heavier flocs (flocs).

COAGULANT AND FLOCCULANT TO BE USED IN CONSTRUCTION OF WATER TREATMENT PLANTS.

CONNECTIONS Water clarification and the removal of turbidity will usually require the addition of flocculants, polymers, polyacrylamides (PAM), chitosan and other chemicals that cause soil particles to bind together, become heavy and settle to the bottom of a sediment tank, sediment basin or become entangled in other filters.

Federal and Local Laws F-CO applications shall comply with all federal, local laws, rules or regulations governing F-CO. The operator is responsible for securing applicable required permits, if needed.

Operation and Maintenance Application rates shall conform to manufacturer's guidelines for application. Maintenance shall consist of reapplying F-CO via one of means given when turbidity levels are no longer met or the F-CO is used up.

Disks checks with attached F-CO Bags or Socks. Addition of granular F-CO directly into a disk. Circular treated blankets and surf reinforcement mats that have been associated with F-CO. Pump and Treat systems that use mechanical mixing with a chemical treatment of a F-CO.

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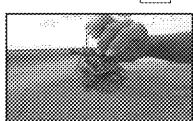
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TACKIFIERS



DEFINITION Tackifiers are used as a tie-down for soil control, weed, stone, tag or mesh. Tackifiers hydrate in water and thereby bond with other slurry materials to form a homogeneous slurry.

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established by the Food and Drug Administration and the Environmental Protection Agency. Not harmful to plants, animals and aquatic life. Contains no growth or germination inhibiting materials.

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Professional Erosion Control Seed Mixture

SLOPEMASTER is a seed mixture specifically designed for erosion control where rapid establishment is a necessity with little follow up maintenance. SLOPEMASTER features the durable white clover Durana which is a medium-leaved, intermediate type white clover containing as many as 97 stolons per sq. foot which will secure most erodible soils.

- Extremely durable erosion control mixture
Aggressive growth to provide complete ground cover
Contains perennial seed that establish quickly and last for years
Durana White Clover establishes stoloniferous growth to hold soils in place
Durana White Clover fixates atmospheric Nitrogen for reduced fertilizer requirements



Establishment: SLOPEMASTER can be planted by drilling, broadcasting, or hydraulic seeding. Planting can be made throughout the year when mixed with compatible grasses that are suitable with planting dates.

Southern Fall/Spring Mixture: 50% Turf Type Tall Fescue, 40% Unhulled Sorghum Lespedeza, 10% Durana White Clover. Northern Mixture: 75% Turf Type Tall Fescue, 11% Annual Ryegrass, 9% Unhulled Sorghum Lespedeza, 5% Durana White Clover.

Seeding Rates: 50-200 lbs / acre (22.7-90.80 kgs / hectare). P.O. BOX 260 * MADISON, GA 30650 * (706) 342-1234 * 800-277-1412

GUIDE SPECIFICATION FOR PERMANENT SLOPE SEEDING

Section 02936 PERMANENT SLOPE HYDROSEEDING

PART 1 GENERAL

1.01 SUMMARY A. This section specifies a seed mix applied to sloped area requiring sustained vegetation.

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 weather damage, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER A. PENNINGTON SEED INC. SEED PRODUCTION - 1280 ATLANTA HWY - MADISON, GA 30650, 800-276-6100 (Fax 706-342-8071)

2.02 MATERIALS A. Mixed sustainable slope seed; SlopeMaster by Pennington Seed, Inc. applied at a minimum rate of 500 lbs (227 kg) per 1000 square feet of the warm season mixture and 200 lbs (90.7 kg) per 1000 square feet of the cool season mixture with the following characteristics:

- Material: Permanent and temporary seed mixture
Moisture: 5% Durana White Clover
Inert Material: Less than 1%
Other Crop Seed: Less than 1%
Coating: Inoculated with Germax Seed Treatment (Rhizolok XL and Apron XL) and MYCO (Mycorrhizal Fungus)
Seeding: 25lb Seacat bags.

GUIDE SPECIFICATION FOR PERMANENT SLOPE SEEDING

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1.01 EXECUTION A. Examine substrates and conditions where material will be applied. Do not proceed with installation until unsatisfactory conditions are corrected.

1.02 SUBSTRATE PREPARATION A. Examine substrates and conditions where material will be applied. Do not proceed with installation until unsatisfactory conditions are corrected.

1.03 INSTALLATION A. Strictly comply with manufacturer's installation instructions and recommendations.

1.04 MAINTENANCE A. Wash hands after seeding to remove all seed treatment or chemical residue that could be remaining.

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1.05 CLEANING AND PROTECTION A. Wash hands after seeding to remove all seed treatment or chemical residue that could be remaining.

1.06 END OF SECTION

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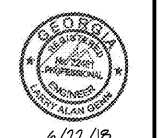
10/25/2007

Clark Patterson Inc. ARCHITECT, INC. 3011 SUTTON GATE DRIVE SUITE 200 SUWANEE, GA 30088 TEL (800) 274-9006 FAX (770) 431-9243 www.clarkpatterson.com

Table with columns: NO., DATE, REVISION

SOUTH TRANSPORTATION & MAINTENANCE FACILITY FACILITIES AND TRANSPORTATION SERVICES DEPARTMENT FULTON COUNTY, GEORGIA FULTON COUNTY BOARD OF EDUCATION

S.Y. RICHARDS, ARCHITECT, INC. MONROE, GEORGIA



6/22/18 SHEET TITLE: EROSION & SEDIMENT CONTROL DETAILS V

DATE: June 22, 2018 DRAWING CNO /

SHEET C-10K OF 1000 PROPOSAL

Order Plans