Flocculants

Colonial Construction Materials

Floc™ Bag

Floc™ Bags can be implemented in your waste stream, ditch channel, sediment basin or pond by attaching the Floc™ Bag to a string/rope and staked into the ground. For pond and sediment basin applications, multiples can be attached on a string/rope that spans the width of a basin or pond. The Floc™ Bag application insures proper dosing as the Floc is dissipated according to turbidity and water flow, allowing for consistent dosing, relieving the contractor of multiple applications, therefore reducing time/labor costs.
Floc™ Bags are a great tool for reducing the turbidity, hydrocarbons and heavy metals from your wastewater.
Floc™ Bags can also be used in conjunction with typical Sediment Retention Devices such as wattles, silt fence, ditch checks and hay bales by attaching the Floc™ Bags to the sediment retention device (SRD) with a zip tie. Replacement bags can then be attached over and over to the SRD when the flocculant has been dissipated out, therefore increasing the effectiveness of the SRD in controlling turbidity, heavy metal and hydrocarbon reduction.

Floc™ Bags are availible in 8-4 lb. bags per case and 36 cases per pallet. Each 4 lb. bag typically treats 4,000 gallons.

Benefits

- Reduced Quantity of Chemicals
- Increased Settling Rates
- Increased Hydraulic Capacity
- Increased Flocculent (Floc) Size
- Improved Flocculent (Floc) Shear and Mixing
- Heavy Metals Removal and Recovery
- Enhanced BOD/TSS Removal
- Reduced Impact on TDS/EC
- Meets US EPA TCLP (toxicity testing) Works Over Broader pH Ranges (4 to 12)
- Reduced Costs

Patents Pending

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Flocculation or floculation, is the process of adding a flocculant, coagulant or other catalyst to dirty water or wastewater. The flocculant then binds with the contaminants to form flocculent or floc. This process is a critical part of virtually all discharge sites or wastewater treatment. Separating solids from liquid is the primary basis of the treatment.

Floc™ products coagulate, break emulsified oils in water, change the pH, encapsulate the metals, and flocculate to separate the solids from the discharge site or waste stream resulting in the ultimate flocculation.

Floc™ is designed to break emulsified oils as well as encapsulate the heavy metals or entrained oil in a strong floc. The Floc™ products are formulated from chemicals that are either NSF 60 approved for drinking water application, FDA approved for direct human contact, or meeting the GRAS status as defined by the FDA.
Floc™ products operate over a wide pH range, generate a high shear strength floc, require no additional chemistry to dewater, simplify the operations by using just 1 product, and reduce operating costs.

Placement
Each Floc™ Bag is designed for placement within a ditch averaging 8 – 12 ft wide and 4 – 6 ft deep, 4 bags may be required depending on turbidity (sediment content) and water flow. Placement should occur closest to the flow of water. All factors are variable (slope, water content and velocity of water) due to these variables, placement and number of bags will vary. As an example in a 8' wide x 4' deep ditch with highly turbid water and relatively fast moving water may require 4 Floc ™ Bags end to end and at 100 yards distance downstream. Floc ™ Bags may also be zip tied to wattles, silt fence or hay bales and may also be used in conjunction with rock check dams and inserted into pipe drainages at the inlet or outlet.

Note: Actual GPM or dosage will vary based on site criteria and soil/water testing.

Directions for Use
Remove plastic covering and slip bags into water to begin sediment control process. Placement is made per ditch size and volume of water. For your convenience, each bag has a loop hanger incorporated into its netting.

Patents Pending