

Silt Stop® Applications

Dust Control/Surface Runoff Mitigation

Silt Stop® powder, once activated with water, chemically binds to soil and acts to create a crust over dirt roads. This dramatically reduces the amount of dust when dry conditions occur, also mitigating surface runoff during rain events. It works like glue for soil.

Erosion Control

Application of Silt Stop® powder to a raw slope creates a layer of porous soil bonded together by fibres of polymer. This allows water to seep through as well as run over the surface without eroding the slope. When used on areas of high flow or on steep slopes, erosion BMP such as soft armoring must be implemented adding a structural support (using jute, coir, coconut or other natural blankets).

Revegetation/Tackifying

Silt Stop® powder application holds seeds, mulch and fertilizer in place through wind and rain events allowing establishment of the vegetation with improved growth characteristics and less maintenance. Use of fertilizers can be dramatically reduced along with a decrease of phosphorous in runoff water.

Pond Demucking

Once the area has been sufficiently dewatered (see Floc Log®), Silt Stop® powder can be added to the remaining mud to further dewater and tackify the sediment for easy, drip-free removal with excavator and dump truck. This material can potentially be re-used for revegetation and stabilization applications, further saving money and resources.



Silt Stop® Specifications

Property	Value
Appearance	granular white powder
Bulk Density	40-50 lbs/ft ³ (0.64-0.80 kg/L)
% Moisture	maximum 15%
pH 0.5% solution	pH 6 to pH 8
Shelf life†	5 years
Sold as	50 lb bag (22.5 kg bag)

†do not store in moist or humid conditions or in direct sunlight



Silt Stop® Coverage

Application	Powder	Emulsion
Soil Stabilization	use following amount per acre	
Hydroseed Application	following amount per 3,000 gal. (11,300 L) water applied at 3,000 gal. (11,300 L) total mix per acre	
<i>Gentle to Moderate Slopes (flat to 4:1, 0-25%)</i>		
High Clay Content	10-20 Lbs (4.5-9 kg)	1.5-2.0 gal. (5.7-7.5 L)
High Sand Content	15-20 Lbs (7-9 kg)	1.5-2.0 gal. (5.7-7.5 L)
<i>Steep Slopes (3:1 to 1:1, 33-100%) †</i>		
High Clay Content	20-35 Lbs (9-16 kg)	1.5-2.5 gal. (5.7-9.5 L)
High Sand Content	25-50 Lbs (11-22.5 kg)	2.0-2.5 gal. (7.5-9.5 L)
Dust Control‡ per 2 acres	50 lb (22.5 kg) per 5,500 gal. (20,820 L) tanker truck	2.5 gal. (9.5 L) per 5,500 gal. (20,820 L) tanker truck
Mud Sediment Removal	50 Lbs (23 kg) per 100 cubic yards (75 cubic meters)	N/A

†to be used with natural-fiber matting such as jute for soil stabilization

‡ensuring uniform application, based on 10 foot (3 m) wide roadway

Silt Stop Emulsion should never be applied to stormwater runoff or riparian waters

Using the wrong form of a PAM on a soil will result in performance failure. PAM used alone may not reduce NTU values enough resulting in non-compliance water quality discharges or poor soil binding conditions. Site-specific soil-PAM testing must be performed. Exceeding the maximum application rates for this product does not increase the effectiveness of the product. Prior to the start of construction, a qualified professional should design the application of PAM and plans and specifications should be available to field personnel. PAM alone may not meet testing requirements for NTU reduction and soil stabilization. Site specific "blends" may be needed to meet these requirements. Failure to prepare and use a maintenance plan may result in PAM performance failure. Clear Flow Consulting only uses environmentally friendly products. Silt Stop® is a trademark of Applied Polymer Systems, Inc.

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Canadian Distributor



Water Treatment

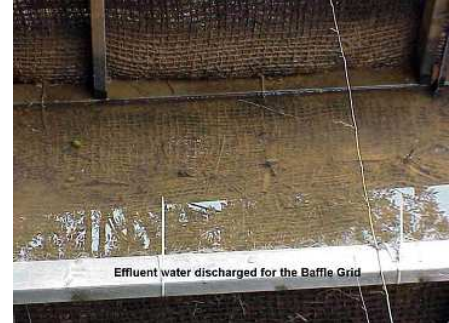


Floc Logs® are co-polymer blended blocks that provide a convenient method to introduce environmentally safe polymers into continuous or intermittent concentrated flows - such as ditches, inlets, storm drain systems and pump discharges. After initial implementation minimal maintenance is required. Mixing devices are easily employed using off the shelf BMPs. The polymer blend is dispersed into the water as it dissolves. Each Floc Log® type is produced to work with specific soil lithologies and/or site water chemistries. Once introduced, Floc Log® polymers transform elevated levels of fine suspended particles, including colloidal clays, metals, phosphorous and nutrients into masses easily removed from moving water. Therefore, all construction site storm water can be clarified prior to discharge onto adjacent land or receiving waters.



Sediment Control Surface/Storm Water Runoff

Placing environmentally friendly Floc Log® in a runoff stream causes the polymer to be released which causes the sediment particles to settle by flocculation. Adequate mixing and settling times for the flow rate, temperature and sediment load must be achieved for optimum polymer performance.



Pond/Holding Basin Clarification

Utilizing a mixing system to remove water from a cloudy pond or holding basin and passing the water over Floc Log® before returning to the pond reducing the turbidity of the pond allowing greater depth of visibility.



Heavy Metal Reduction

Use of Floc Log® in runoff water reduces the amount of heavy metals, PCBs, organics, phosphorous and coal by grabbing the silt and clay particles that these are attached to and causing them to settle out of the flowing water.



Floc Log® Specifications

Property	Value
Appearance	semi-solid block with internal biodegradable coconut skeleton
Dry weight	7.5 lb (3.4 kg)
Dry dimensions	6" x 4" x 12" (15 cm x 10 cm x 30 cm)
% Moisture	maximum 40%
pH 0.5% solution	pH 6 to pH 8
Shelf Life	5 years
Active concentration	2 - 30 ppm [†]
Volume of treatable water	430,000 gallons (1,620,000 litres) [†]
Sold as	packaged box of 4

[†] ppm = mg/L

*based on 4% solids

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