

Silt Stop[®] Polymer

Sediment Reduction Technology

SILT STOP[®]

Description

Silt Stop[®] is an anionic polymer flocculent that is used with Filtrex[®] *sediment control and filtration* practices, such as Sediment control, Check dams, Concrete washouts, Slope interruption, and Filtration system baffles. It is specifically used to further **reduce suspended solids and turbidity in storm runoff**. Silt Stop[®] should not be used without one of these practices and should not be applied within 25 ft (7.6m) of natural waterways (KY TC, 2006). When using Silt Stop[®] there should be a secondary sediment control or filtration practice installed after the practice where it is applied, as this product should not be directly discharged into storm inlets, drains, natural receiving waters, or wetlands. For optimum performance this Support Practice™ should be applied immediately upslope and/or along the inner circumference of the Filtrex[®] practice.

Function

Silt Stop[®] is an anionic, polymer flocculent that reduces suspended solids and turbidity when applied with Sediment control, Check dams, Concrete washouts, Slope interruption, and Filtration system baffles. Silt Stop[®] is a material that flocculates negatively charged eroded soil colloids together to form larger aggregates (or flocs) that reduce their propensity to be transported by sheet runoff. Silt Stop[®] is anionic, which means it has a positive electrostatic charge that attracts negatively charged clay colloids. As soil colloids floc together to form a larger mass and weight they eventually fall out from storm runoff, settle in retained runoff, and are more difficult to transport in sheet flows.

Additionally, flocculants can create a surface coagulant which buffers the mobility of soil

particulates, reducing their transportability in storm runoff. Due to the coagulation characteristic this product may reduce hydraulic flow through rate and permissivity of the Filtrex[®] practices listed above. For optimum performance, site soil samples should be taken and sent to Applied Polymer Systems to determine the best Silt Stop[®] product for your soil type. For more information on testing and research with Silt Stop[®] and Filtrex[®] products see research summaries in the Appendix.

Installation

1. Where required, Silt Stop[®] shall be surface applied manually, directly upslope, and along the entire length of the Filtrex[®] sediment control or filtration practice.
2. Silt Stop[®] shall be applied at a rate of 100 grams per linear ft (0.3 m)
3. Silt Stop[®] shall not be applied within 25 ft (7.6 m) of receiving stream, river, lake, or wetland.

Inspection & Maintenance

1. Additional applications of Silt Stop[®] may be added after storm events to decrease suspended solids and turbidity resulting from future rainfall/runoff events.
2. If Sediment control, Check dams, Concrete washouts, Slope interruption, or Filtration system baffles exhibit significantly reduced hydraulic flow through rates or become clogged, they should be cleaned out or replaced.

Method of Measurement

Bid items shall show measurement as APS Silt Stop[™] + Filtrex[®] BMP per linear ft or per linear m installed.



ADDITIONAL INFORMATION

For other references on this topic, including trade magazine and press coverage, visit the Filtrexx® Website at: <http://www.filtrexx.com/resourcespress.htm>.

For research reports not included in the Appendix, visit: <http://www.filtrexx.com/resourcesreports.htm>.

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