



## Applied Polymer Systems, Inc.

519 Industrial Drive  
Woodstock, GA 30189  
678-494-5998  
[www.siltstop.com](http://www.siltstop.com)

# Silt Stop<sup>®</sup> and Floc Log<sup>®</sup> Applications – Construction Sites

## SEDIMENT CONTROL

### Storm Water Clarification Using Floc Log<sup>®</sup> Technology

**Floc Logs<sup>®</sup>** 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. Each **Floc Log<sup>®</sup>** type is produced to work with specific soil lithologies and/or site water chemistries. Once introduced, **Floc Log<sup>®</sup>** polymers transform elevated levels of fine suspended particles, including colloidal clays, into soil masses easily removed from moving water. Therefore, all construction site storm water can be clarified prior to discharge onto adjacent land or into receiving waters.



### Storm Water Clarification Using Baffle Grids

A **Baffle Grid** is a series of permeable panels that removes and reduces suspended soil masses, previously generated by the **Floc Log<sup>®</sup>**, within a continuous or intermittent storm water flow. They are sized to meet the needs of specific flow rates. **Baffle Grids** may not be required if the **Floc Log<sup>®</sup>** generated soil masses settle readily and a low-energy water flow can be generated prior to discharge.



### Storm Water Clarification Using Particle Curtains

A **Particle Curtain** is similar to a single **Baffle Grid** panel and is used for deep-water discharge locations. More than one **Particle Curtain** may be used in a series to achieve better water clarity. Turbidity particles adhere to the curtain after reaction with the **Floc Logs<sup>®</sup>** installed in the drainage system feeding sediment traps, catch basins and detention ponds.



## EROSION CONTROL

### SILT STOP® Powders and Emulsions

**Silt Stop**® is a family of co-polymer PAM blends, each formulated to work with specific soil lithologies and/or site water chemistries. **Silt Stop**® blends are available in powders and/or emulsions. The application of **Silt Stop**® to soil surfaces will reduce mass erosion, reduce or eliminate fine soil particle suspension, reduce or eliminate colloidal turbidity in runoff, increase soil infiltration rates, decrease runoff quantities and improve vegetation establishment. **Silt Stop**® provides superior tackifying characteristics.

Emulsions may be applied using hydraulic seeder/mulchers or water trucks. Powders may be applied using hydraulic seeder/mulchers, tow-behind or hand held spreaders or pneumatic blowing equipment.

**Silt Stop**® PAM may be used by itself or in conjunction with hydraulically, mechanically or pneumatically applied mulches, to temporarily control or reduce erosion of non-stabilized soil surfaces.

When used in conjunction with sufficient hydraulic mulch and organic reinforcement fibers, **Silt Stop**® binds the mulch, fiber, seed, fertilizer and soil into a strong, durable bonded fiber matrix.

When high erosive stresses are anticipated [steep slopes, long slopes, ditches, swales, pavement edges, etc.], **Silt Stop**® assists in establishing vegetation by binding concurrently-applied seed and fertilizer to a previously placed organic reinforcing grid [burlap, jute, or coconut fiber]. This soft-armoring technique is effective regardless as to whether the **Silt Stop**®, seed and fertilizer are dry-applied or slurry-sprayed.



## WET SOIL SOLIDIFICATION

Mixed with saturated soils, such as mechanical or hydraulic dredge spoils, **Silt Stop**® solidifies the soil particles, enabling on-site disposal or off-site transportation and disposal without liquid spills or dripping. The increase in ease of handling the material will save time, lower costs and increase productivity.



**Silt Stop**® and **Floc Log**® products are made with NSF Standard 60 Drinking Water Additives and have undergone EPA/600/4-90/027F Acute 48-hr. and EPA/600/4-91/002 7 day Chronic testing.