Applied Polymer Systems, Inc.

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Combining **Silt Stop**® with the hydroseeding mix and applying over soft armor provides a secure base for vegetation to grow.

Sediment lost from construction sites can pollute streams and lakes, fill storm water treatment systems, cover and destroy fish spawning beds and reduce the overall quality of water for subsequent beneficial uses. Turbidity in storm water runoff is caused by organic and inorganic colloidal suspensions which cannot settle out by gravity separation alone. These fine particles are often a small percent of the endemic soil matrix, but they are the greatest contributor of turbidity problems.

Typical BMPs, such as detention basins, check dams and perimeter erosion controls, alone are generally ineffective for removal of colloidal suspension of turbidity from storm water runoff. USDA test data indicates that soil specific polyacrylamide has been a beneficial agent for soil erosion control. Reduced sediment, pesticide and nutrient loading to riparian areas can ultimately be expected when using polyacrylamide on construction projects.

Applied Polymer Systems, Inc. (APS) uses an innovative approach for the performance optimization of polyacrylamide applications. Unlike conventional techniques that tend to only "get close", APS precisely matches the correct polymer to the application site's lithology. This results in better performance at a reduced cost.

Silt Stop® and **Floc Log**® are specifically tailored for soil type and water chemistry. Samples may be mailed to Applied Polymer Systems, Inc. or to your local APS distributor for a no cost analysis to ensure the most effective results.

Hydroseeding applications may be sprayed directly over the soft armor system as seen above. Areas of high water velocity will become extremely resistant to erosion without the high cost of expensive matting and blankets. After vegetation becomes established, the **Silt Stop**® and soft armor will rapidly biodegrade leaving only the intended vegetation.

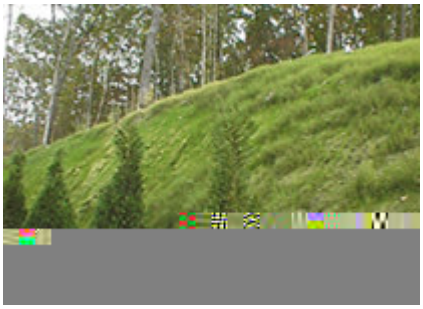
Silt Stop® and Floc Log®

Are the only "Soil Specific" PAMs available in North America
Outperforms all generic polymers or PAMs
Has no toxicity effect or change on soil pH
Passes EPA/-821-R-02-012 48-hr Acute Static Toxicity Test (*Daphnia magna*)
Passes EPA/600/4-91/002 7-day Chronic Toxicity Test (*Pimephales promelas*)
Listed under NSF Standard 60 Drinking Water Chemicals

Removes solubilized soil and clay from water
Prevents colloidal solutions from re-suspending
Will reduce soil movement during rain events on moderate slopes
Reduces pesticides and fertilizer loss
Binds cationic metals with the soil matrix, reducing solubility
Reduces wind-borne dust conditions
Increases soil permeability and water penetration to shallow plants

Emulsion or powder **Silt Stop®** may be added to a hydroseeder as the final additive in the mixture. Each **Silt Stop®** type may react differently in regards to the soil type that is being targeted. Specific soil tests will determine the correct **Silt Stop®** that will need to be used.

Application of the hydroseeding mix will vary with the viscosity of the solution. Different **Silt Stop®** types will create different viscosities. In most cases applicators may not see a difference in the mix solution. Conventional tackifiers need not be used when using **Silt Stop®** within your hydroseeding mix.



Results are superior tackification or holding power, homogeneous vegetation, lesser volume of lime or soil conditioning requirements and substantial vegetative growth potential. **Silt Stop®** has outperformed all conventional agricultural PAMs and tackifiers currently available to date.

Contact Applied Polymer Systems, Inc. for your nearest distributor.