

# Applied Polymer Systems

519 Industrial Drive, Woodstock, GA 30189

[www.siltstop.com](http://www.siltstop.com)

## APS 700 Series Silt Stop® Polyacrylamide Erosion Control Powder

**APS 700 Series Silt Stop®** is a group of soil specific tailored polyacrylamide co-polymer powders for erosion control. They reduce and prevent erosion of fine particles and colloidal clays from soil into stormwater.

### **Primary Applications**

- Mine Tailings and Waste Piles
- Newly cleared Construction or Building Sites
- Road and Highway construction
- Hydroseeding and Water Truck application
- Hand spreading and Ditch placement

### **Features and Benefits**

- Removes solubilized soils and clay from water
- Prevents colloidal solutions in water when applied to the soil surface
- Will reduce soil movement during rain event on moderate slopes
- Binds cationic metals within the soil matrix, reducing solubilization
- Reduces pesticide and fertilizer loss during rain events
- Reduces wind borne dust conditions
- Increases soil permeability and water penetration to shallow plants
- Reduces operational and cleanup costs
- Reduces environmental risk and compliance

### **Specifications / Compliances**

- ANSI/NSF Standard 60 Drinking water treatment chemicals
- 48h or 96h Acute Toxicity Tests (*D. magna*, *P. promelas*, or *O. mykiss*)
- 7 day Chronic Toxicity Tests (*P. promelas* or *C. dubia*)

### **Packaging**

APS 700 Series Silt Stop® is packaged in 50 pound bags

### **Technical Information**

Appearance: White granular powder

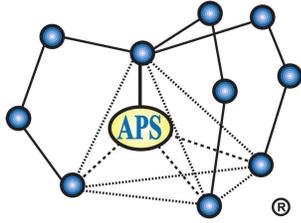
Bulk Density: 40-50 lbs./cubic foot

Percent Moisture: 15% maximum

pH 0.5% solution :6-8

Shelf Life: up to 5 years

Note: Dosage-application rates are determined on soil specific testing. Soil polymers and blends should never be used without testing the soil first. Consult your local distributor or send your samples to Applied Polymer Systems, Inc.



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## Coverage

**Soft Armoring** application rate (per acre coverage): varies by soil content and grade of slope.

**Hydroseeding** application rate (per acre coverage): varies by soil content and grade of slope.

*Gentle to Moderate slopes (0 to 4H:1V)*

**High Clay Content:** 10-20 # powder

**High Sand Content:** 25-50 # powder

*Steep slopes (3H:1V to 1H:1V)*

**High Clay Content:** 20-35 # powder

**High Sand Content:** 45-50 # powder

*Gentle to Moderate slopes (0 to 4H:1V)*

**High Clay Content:** 10-20 # powder/ 3000 gallons/ acre

**High Sand Content:** 25-50 # powder/ 3000 gallons/ acre

*Steep slopes (3H:1V to 1H:1V)*

**High Clay Content:** 20-35 # powder/ 3000 gallons/ acre

**High Sand Content:** 40-50 # powder/ 3000 gallons/ acre

## Directions for Use

**Dry Form** - APS Silt Stop<sup>®</sup> Powder may be applied by hand spreader, mechanical disc, or hand sowing. Slope or ditch application may require artificial support such as straw, or wood fiber mulch to reduce down slope movement. Areas of high water velocity will require benching or tier structuring to reduce velocity. Sheet flow applications are best. APS Silt Stop<sup>®</sup> Powder may be mixed with dry silica sand to aid in spreading. Ratios of sand to powder will vary in accordance with the type of spreading device used.

**Liquid Form** - APS Silt Stop<sup>®</sup> Powder may be applied with hydroseeders, water trucks or other spraying devices. All spraying devices must have a mechanical agitator or mixing apparatus or hydraulic recirculation. **Caution - Do Not** mix powder into a spraying device that does not contain a mixing apparatus.

**Mixing** - Sprinkle powder into the water with the mixing apparatus operating as the last material to be added to the mix. Three to Five minutes of mixing will be required after the powder is sprinkled into the water. **ADD THE POWDER SLOWLY**-adding the powder to fast will result in clumping resulting in poor performance.

**Longer mixing times will create high viscosity solutions possibly causing some types of spray equipment to undergo cavitations.**

**Caution - Do Not** exceed 8 lbs / 1500 gallons as viscosity of the water may damage spraying equipment. (This will treat ½ acre)

## Clean-up

Spilled powder should be cleaned up dry as best as possible using broom or vacuum. Extreme slippery conditions will result. In event of skin contact, wash power from skin as soon as possible using soap and water.

## Precautions / Limitations

- Prevent inhalation of the powder, use adequate dust mask.
- Clean up spills quickly. Do not use water unless necessary, extremely slippery conditions will result.
- Do not add water to the APS Silt Stop<sup>®</sup> Powder; add the powder (sprinkle) to the water slowly.
- APS Silt Stop<sup>®</sup> Powder will remain viable on the soil surface for 60-90 days. Longer viability will occur when applied powder is covered with straw or wood fiber mulch.
- APS 700 Series Silt Stop<sup>®</sup> powders have been specifically tailored to specific soil types. Soil types in varying geographical areas may require testing. If proper performance of this product is not satisfactory, contact Applied Polymer Systems.