



## Applied Polymer Systems, Inc.

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# APS 700 Series Silt Stop®

## Polyacrylamide Erosion Control Powder

**APS 700 Series Silt Stop®** is a group of soil specific polyacrylamide co-polymer powders used 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 events 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
- 48 hr or 96 hr 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  
Percent Moisture: 15% maximum  
pH 0.5% solution: 6-8  
Shelf Life: up to 5 years

Note: Dosage-application rates are determined by 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.

## **Coverage**

10 – 20 # powder/acre – gentle to moderate slopes (flat to 4:1) **Dry Spread Application**

20 – 50 # powder/acre – steep slopes (3:1 to 1:1) **Dry Spread Application**

3.5 – 5 # powder/1,000 gallons water per 1/3 Acre **Hydroseeding Applications**

## **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, 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 too fast will cause clumping resulting in poor performance; adding the powder too fast may cause malfunctioning of your equipment.

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

**Caution - Do Not** exceed 20 lbs/1,500 gallons as viscosity of the water may damage spraying equipment. (This will treat 1/2 acre)

## **Clean-up**

Spilled powder should be cleaned up as soon as possible using broom or vacuum. **DO NOT USE WATER FOR CLEAN UP**; extremely slippery conditions will result. In event of skin contact, wash powder from skin as soon as possible using soap and water.

## **Precautions / Limitations**

- Prevent inhalation of the powder, use 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 fit specific soil types. Soil types from different geographical areas require testing. If performance of this product is not satisfactory, contact Applied Polymer Systems.