Applied Polymer Systems, Inc.

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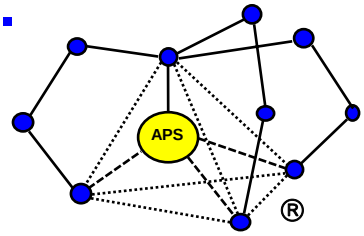

APS 700 Series Floc Log®

Polyacrylamide Erosion Control Applicator Log

APS 700 Series Floc Log is a group of soil specific tailored log-blocks that contains blends of water treatment components and polyacrylamide co-polymer for water clarification and erosion control. They reduce and prevent fine particles and colloidal clays from suspension in stormwater. There are more than 60 types of Floc Logs designed for varying soil and water conditions. Contact Applied Polymer Systems, Inc. or your local distributor for testing and site-specific application information.

Primary Applications

- Mine Tailings and Waste Pile ditches
- Newly cleared Construction or Building Sites drainage
- Road and Highway construction runoff ditches
- Ditch placement for all forms of highly turbid waters
- Dredging operations as a flocculator

Features and Benefits

- Removes solubilized soils and clay from water
- Prevents colloidal solutions in water within ditch systems
- Binds cationic metals within water, reducing solubilization
- Reduces pesticide and fertilizer loss during rain events from runoff
- Increases soil permeability and water penetration to shallow plants in ditches
- Reduces operational and cleanup costs
- Reduces environmental risk and helps meet compliance

Specifications / Compliances

- ANSI/NSF Standard 60 Drinking water treatment chemical additives
- 48h or 96h Acute Toxicity Tests (*D. magna* or *O. mykiss*)
- 7 Day Chronic Toxicity Tests *(P. promealas* or *C. dubia)*

Packaging

APS 700 Series Floc Logs are packaged in boxes of (4)

Technical Information

Appearance - Semi-solid block
Biodegradable internal Coconut skeleton
Percent Moisture - 40% maximum
pH 0.5% solution - 6-8
Shelf Life – up to 5 years

Placement

Each Floc log is designed for placement within a ditch averaging three feet wide by two feet deep. Floc log placement is based on gallon per minute flow rates Note: actual GPM or dosage will vary based on site criteria and soil/water testing.

Directions for Use

(Mixing of water and Floc Log is most Important)

APS 700 Series Floc Log should be placed within the upper quarter to half of a ditch system or as close as possible to active earth moving activities. Simply anchor a stake onto the center of the ditch system as far up slope as possible. Place the attachment loop over the stake and lay the Floc Log into the center of the ditch. APS 700 Series Floc Logs can easily be moved to different locations as site conditions change. The addition of soft armor covered ditch checks below the Floc Log will greatly improve water clarity. Construction of mixing weirs may be required in areas where: short ditch lines, swelling clays, heavy particle concentrations, or steep slopes may be encountered.

Cleanup:

Use soap and water to wash hand after handling. Plastic or rubber gloves are recommended during movement after usage.

Precautions / Limitations

- APS 700 Series Floc Logs will become extremely slippery when wet.
- Clean up spills quickly, Do Not use water unless necessary, extremely slippery conditions will result.
- APS Floc Log will remain viable for up to 5 years.
- APS 700 Series Floc Log has 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.

Applied Polymer Systems, Inc.

Material Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: APS 702b Floc Log

Supplied:
Applied Polymer Systems, Inc.
519 Industrial Drive
Woodstock, GA 30189
Tel. 678-494-5998
Fax. 678-494-5298
www.siltstop.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation: Anionic water-soluble Co-polymer gel

3. HAZARD IDENTIFICATION

Placement of these materials on wet walking surface will create extreme slipping hazard.

4. FIRST AID MEASURES

Inhalation: None

Skin contact: Contact with wet skin could cause dryness and chapping. Wash with water and soap. In case of persistent skin irritation, consult a physician.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids, seek medical attention in case of persistent irritation.

Ingestion: Consult a physician

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, water spray, foam, carbon dioxide, dry powder.

Special fire-fighting precautions: Floc Logs that become wet render surfaces extremely slippery.

Protective equipment for firefighters: No special equipment required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No special precautions required.

Methods for cleaning up: Dry wipe as well as possible, Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Wash hands after handling.

Storage: Keep in a cool, dry place. (0-30^0 C) DO NOT FREEZE

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: **Use dry handling areas only.**

Personal protection equipment

Respiratory Protection: **None**
Hand protection: **Dry cloth, leather or rubber gloves.**
Eye Protection: **Safety glasses with side shields. Do not wear contact lenses.**
Skin protection: **No special protective clothing required.**
Hygiene measures: **Wash hands before breaks and at end of work day.**

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: **Granular semi-solid gel**
Color: **White to Brown**
Odor: **None**
pH: **3-10**
Melting point: **N/A**
Flash point: **N/A**
Vapor density: **N/A**

10. STABILITY AND REACTIVITY

Stability: **Product is stable, no hazardous polymerization will occur.**

Materials to avoid: **Oxidizing agents may cause exothermic reactions.**

Hazardous decomposition products: **Thermal decomposition may produce nitrogen oxides (NOx), carbon oxides.**

11. TOXICOLOGICAL / ECOLOGICAL INFORMATION

Acute toxicity

LD 50 / *Rattus norvegicus* / oral / > 5000 mg/kg
LC 50 / *Daphnia magna* / 48h / >420mg/L
EC 50 / *Selenastrum capricornutum* / 96h / >500mg/L

Inhalation: **None**

Bioaccumulation: **The product is not expected to bioaccumulate.**

Persistence / degradability: **Not readily biodegradable: (~85% after 180 days).**

13. TRANSPORT AND REGULATORY INFORMATION

Not regulated by DOT, **RCRA status-Not a hazardous waste**

NFPA and HMIS ratings:

NFPA	**Health:**	**3**	**Flammability:**	**0**	**Reactivity:**	**1**
HMIS	**Health**	**2**	**Flammability**	**0**	**Reactivity**	**1**