



DamClear Floc Powder

Product Description

DamClear Floc Powder is a free flowing granular powder that is dissolved in water then applied for clarification of water on construction sites, in storm water retention dams, mine water dams, farm dams and for wastewater clarifiers. It is low cost, fast acting, environmentally safe and does not affect water pH or salinity. It contains no heavy metals, nor iron or aluminium.

DamClear is also used for soil erosion control on farms during flood irrigation and on constructions sites. DamClear reacts with sediment causing solids to settle rapidly leaving a clear treated water. Both anionic and cationic grades are available.

Product Features



- Low application rates ✓
- Fast acting ✓
- Good aquatic toxicity ✓
- Safe for Fish ✓
- No affect on water pH ✓
- Low cost ✓
- Does not affect water salinity ✓

DamClear Floc Powder is available in 3 grades, two anionic polymer grades and one cationic polymer grade.

Typical Applications

Flocculant powder is best suited to applications that have a high flocculant demand or that will operate for extended periods of time as this offsets the capital cost for tanks, mixers & dosing pumps.

This product is suitable for applications that are environmentally sensitive. Clarified water, will in most cases be suitable for discharge to rivers and streams.

• Road Construction

Clarification of storm water run-off in Sediment Retention Basins for road, rail and tunnel construction.

• Dam Water

Clarification of clay contaminated river and dam water for live stock, irrigation and horticulture and for ascetic improvement.

• Construction Sites

Clarification of storm water on building sites, and commercial & residential developments.

• Iron Removal

Clarification of iron contaminated ground water.

• Trade & Industrial Wastewater

Clarification of trade & industrial wastewater to remove solids and to thicken sludge.

• Mines & Quarries

Clarification of storm water run-off from mining operations & stock piles at rock, sand & gravel quarries. Clarification of water from drilling operations.

• Biological Wastewater

Sludge settling aid and for thickening and clarification of food processing wastewater and sewage wastewater.

Application Instructions

Dissolve powder in clean water before use. Flocculant powder forms viscous solutions when dissolved in water & this limits the stock solution concentration to a max. 3 g/Litre.

1. Prepare Floc Solution

- To prepare a 200 L stock solution dissolve 0.5 kg (~700 mL) of powder in 200 L of water, or
- For a 1,000 L stock solution dissolve 2.5 kg (~3.5 L) of powder in 1,000 L of water.
- Preweigh floc powder into a dry bucket. Add powder to a half-full tank using a Floc Powder Injector. This device sucks floc powder through a water venturi and prevents lump formation (refer to Floc Powder Injector brochure).



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Application Instructions (continued)



Fill tank with water & mix the powder & water solution for one hour using either an air sparge or low speed mixer.

Do not over-mix. Solution should be lump free.

2. Add Floc Solution To Process

- Add Floc solution to water to be clarified by metering at a controlled rate using a pump.
- If possible dilute 1:10 as solution is being metered to aid dispersion.
- Typical dose rate for a dams is 0.5-5.0 mg/L (0.5-5 kg per Megalitre). A 1,000 L stock solution would treat up to 5 million litres of water.
- **Drip Feed or Metering Pump**
DamClear can be added at a controlled rate into dam feed water pipe or into a recirculating water flow by drip feed or metering pump.

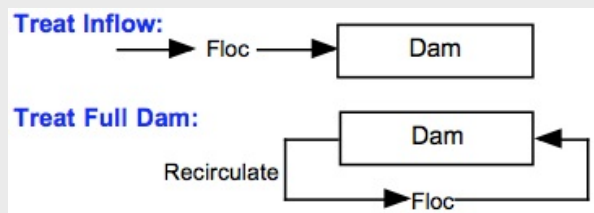
Usually a minimum dose is required before any benefit is seen.

Water clarity and solids settling rate improves with increasing dose rate. Do not overdose.

Determine quantity required before application to dam or process by using jar tests on 500 mL samples of water.

Free water test kits with instructions are available from Environmental Warehouse.

Application Options for Dams



Ordering Information

Three grades of Floc Powder are available.

- **DamClear Floc A10**
Generally best suited to sediments and clays, and to applications where water pH is acidic (<6.5) and where the salinity is relatively high (>500 conductivity). It is generally the best option where chemical pretreatments such as Alum are applied prior to flocculant.
- **DamClear Floc A30**
Generally best suited to sediments and clays, and to applications where water pH is around neutral (7-9) and where the salinity is relatively low (<400 conductivity).
- **DamClear Floc C30**
Generally best suited to biological sludge such as sewage and food wastewater treatment in dams, DAF's and settling tanks and for sludge dewatering.

Pack Sizes:

All grades of Floc Powder are supplied in 15kg plastic drums with resealable lid.

For additional information regarding this product consult Environmental Warehouse directly by Email. The MSDS is available from our website.