



DamClear Clarity Aid CS

Product Description

DamClear Clarity Aid CS is a water clarification aid which is applied to water contaminated with finely suspended solids such as clays and sediment. It is supplied as a free flowing, solid grade product in bags of various sizes including 15kg, 25 kg and 1,200 kg bulk bags.

Product Features

- Safe for Fish ✓
- Good aquatic toxicity ✓
- Usually does not affect water pH ✓
- Low cost ✓

Typical Applications

DamClear Clarity Aid CS is used for clarification of water on construction sites, in storm water retention ponds, mine water dams, farm & stock dams and irrigation dams.

Clays such as bentonite and montmorillonite, which are classified as swelling clays, are very stable when dispersed in water. Left untreated they may take many weeks to naturally clarify. Similarly, water contaminated with ultrafine and colloidal clays can also be very slow to clarify. DamClear Clarity Aid CS clarifies difficult to treat turbid water.

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

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

Application Instructions

DamClear Clarity Aid CS is best slurried with water prior to application. Prepare a stock solution by mixing in a tank or drum of water at a concentration of up to 200 g/Litre. 40 kg in a 200 Litre plastic drum, or 200 kg in a 1,000 Litre tank.

DamClear Clarity Aid CS only partially dissolves in water. Add water to tank first & then add Clarity Aid CS last. Mix the solution thoroughly for 15 minutes. Dilute this solution to about 1/10 & apply to dam water either by:

- **Surface Spray**
Spray required quantity evenly over dam surface & leave undisturbed for 24-48 hours. A slurry pump or similar is ideal for surface spraying.
- **Drip Feed or Metering Pump**
DamClear CS can be added at a controlled rate into dam feed water pipe or into a recirculating water flow by drip feed or metering pump at appropriate rates.

DamClear Clarity Aid CS is effective at application rates of approx. 80-300 mg/L of water (i.e. 80-300 kg per million litres). In many applications a minimum or "threshold" dose is required, i.e. a certain amount of product must be added before any benefit is seen. Once the threshold dose is attained water clarity improves with increasing dose rate. Determine application rate or quantity required before application to dam using jar tests on 500 mL samples of water. Do not overdose. Free water test kits are available from Environmental Warehouse.

DamClear Clarity Aid CS may increase water salinity slightly, and this should be taken into account before using this product.

Option - Use with DamClear Floc Blocs

For applications where water clarification needs to be completed quickly, use with DamClear Floc Blocs. This is a two step treatment process in which the water is first treated with Clarity Aid CS and then with Floc Blocs. This will result in fast solids settling rates of up to 5 metres per hour, and complete water clarification within a few hours.