



DamClear Clarity Aid C

Product Description

DamClear Clarity Aid C 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 solid grade product in the form of a crystal or flake in 25 kg bags.

Product Features

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

Typical Applications

DamClear Clarity Aid C 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 C rapidly clarifies difficult to treat turbid water.

This product is suitable for applications that are environmentally sensitive. Clarified water, in most cases, is 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 aesthetic improvement.

Application Instructions

DamClear Clarity Aid C must be dissolved in water prior to application. Prepare a stock solution by dissolving in water using a tank or drum at up to 250 g/Litre. That is: 50 kg in a 200 Litre plastic drum, or 250 kg in a 1,000 Litre tank.

DamClear Clarity Aid C dissolves readily in water and the solution should be ready for use within 10 mins. Note that dissolution in water results in solution temperature rise up to 40-55 °C depending on concentration. Be sure to add water to tank first & then add Clarity Aid C last. Mix the solution thoroughly for 5 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 hours. A fire fighting pump or similar is ideal for surface spraying.
- **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.

Application rates are about 50-150 mg/L (50-150 kg per million litres). Usually a minimum dose is required before any benefit is seen. Water clarity improves with increasing dose rate. Do not overdose. Determine quantity required before application to dam using jar tests on 500 mL samples of water. Free water test kits with instructions are available from Environmental Warehouse.

DamClear Clarity Aid C may increase water salinity, 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 C 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.