

DamClear Clarity Aid PA

Product description

DamClear Clarity Aid PA is a water clarification aid which is applied to water contaminated with ultrafine suspended solids such as clays and sediment.

Clarity Aid PA is a liquid product and comes in 20 litre and 1,000 litre IBC's.

Product features

- Fast acting
- Reduces nutrient & phosphate levels in dams
- Reduces colour, tannins and organic matter found in natural waters and dams
- Excellent clarification aid for a large range of food and industrial wastewater applications

Typical applications

DamClear Clarity Aid PA 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 clay can be very stable when dispersed in water. Left untreated, these clay dispersions may take many weeks to settle on their own. Similarly, water contaminated with natural colloidal sized colour species such as tannins will also take many weeks to settle. Addition of DamClear Clarity Aid PA helps destabilise these small particles leading to larger flocs, which in turn helps to rapidly clarify these difficult to treat turbid waters.

With controlled dosing and suitable treatment systems in place, Clarity Aid PA can be used with potable and wastewater clarification systems, and in most cases the resultant clean water discharge can be directed to rivers and streams if required.

• Dam water

Clarification of clay contaminated river and dam water for livestock, irrigation and horticulture, and for aesthetic improvement.

• Construction sites

Clarification of truck wash water in water recycle systems, and for clarifiers and solids settling tanks.

• Industrial tradewaste treatment

Suitable for clarification of tradewaste and industrial wastewater in food and non-food processing applications. Can be used in both clarifiers and dissolved air flotation systems.

Application instructions

Clarity Aid PA can be diluted if required prior to use. Dilution water is best added after the metering pump and prior to injection into the process stream.

Apply Clarity Aid PA to the application or process by drip feed, or preferably with a suitable chemical metering pump. Clarity Aid PA should be added at a controlled rate into a feed water pipe or into a recirculating water flow at appropriate rates.

Clarity Aid PA is effective at application rates of approx. 10–150 ppm (10–150 litres per million litres). Usually a minimum dose is required before any benefit is seen. Once the minimum dose is attained, the water clarity should improve with an increasing dose rate. Do not overdose.

We recommend conducting jar tests first to determine the most suitable dose rate of Clarity Aid PA before application. Maintaining the pH of the dosed water to between 6.0–7.5 should yield the best results.

Clarity Aid PA will consume some alkalinity and will increase the water salinity dependent on the dose rate, and this should be considered before using.

Option - use with DamClear Floc Blocs

For applications where water clarification needs to be completed quickly, use Clarity Aid PA in conjunction with DamClear Floc Blocs. First, treat the water with Clarity Aid PA then pass the resultant mixture over Floc Blocs. This should provide solids settling rates up to 5 metres per hour, allowing water clarification within a short time frame.

Handling

Read the DamClear Clarity Aid PA Safety Data Sheet (SDS), including Section 7 and 8 before handling. Wear safety glasses and suitable gloves when using.