

DamClear Clarity Aid PD

Product description

DamClear Clarity Aid PD is a high performance synthetic polymer used for the clarification of water contaminated with ultrafine and colloidal sized suspended solids such as clays and sediment.

Clarity Aid PD is a liquid product and comes in either 25 kilogram drums or 1,000 litre IBC's.

Product features

- Reduces colour, colloidal & suspended solids found in natural waters and dams
- Does not affect salinity or pH
- Fast acting
- High charge, long chain for optimum performance
- Versatile - performs at pH's between 4–11
- Concentrated for very low dose rates
- Can be diluted to minimise use and aid mixing
- Dose up to 25 mg/L for potable water applications

Typical applications

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

DamClear Clarity Aid PD is also suitable for use where the treated water is reused after clarification, and when the water will be used for domestic or potable applications.

Clays such as bentonite clay (a swelling 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 PD 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 PD 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.

• Quarry water circuits

Ideal where water is clarified and re-used in sand and gravel washing.

• Landfill

Clarification of leachate water in drainage basins where water is recycled or irrigated.

• Dam water

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

• Construction sites & truck wash

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 PD can be diluted if required prior to use. Dilutions up to 1:200 are possible, with 1:20 to 1:50 being common. Dilute solutions may lose effectiveness over time and so should be changed every few days.

Apply Clarity Aid PD at a controlled rate to a well-mixed or highly turbulent location of the water circuit with a suitable chemical metering pump. For most applications a typical addition point may be on the suction side of a water pump, or upstream of an in-line static mixer, or before pipework with elbows & bends and long straight runs.

Clarity Aid PD is effective at application rates of approx. 0.2–25 ppm (0.2–25 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.

Be careful not to add too much, as overdosing Clarity Aid PD can have the undesired effect of making the water cloudy or turbid again. For this reason we recommend conducting jar tests first to determine the most suitable dose rate of Clarity Aid PD.

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Option - use with DamClear Floc Blocs

For applications where water clarification needs to be completed quickly, use Clarity Aid PD in conjunction with DamClear Floc Blocs.

First, treat the water with Clarity Aid PD 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 PD Safety Data Sheet (SDS), including Section 7 and 8 before handling.

Do not get in eyes, on skin or on clothing - wear safety glasses and suitable gloves before handling.

*We have products available for every type of water clarification situation.
Visit our website for more information, www.enviowarehouse.com.au*