

DamClear FlocBlocs

Product Description

DamClear FlocBlocs provide a simple and convenient method for applying flocculant polymers to water requiring clarification.

FlocBlocs consist of fine granules of powder grade flocculant dispersed in a non-toxic and readily water soluble binding polymer.

As water flows over the Bloc, flocculant is released which combines with the sediment, causing the sediment particles to agglomerate so they settle rapidly, leaving behind clear treated water.



Product Features

- Fast acting
- Low application rates
- Does not affect water pH
- Does not affect water salinity
- Low aquatic toxicity
- Safe for fish
- Can be applied during storm events
- Can be used for discharge to rivers & streams

Typical Applications

DamClear FlocBlocs are ideal for dosing flocculant for water clarification in remote locations such as storm water drains & detention dams, or where regular supervision of chemical dosing is not practical.

Ideal for the clarification of water on construction sites, in storm water retention ponds, mine water dams, farm & stock dams and irrigation dams.

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 & tunnel construction.
- Dam water**

Clarification of clay contaminated river & dam water for livestock, irrigation & horticulture, and for aesthetic improvement.
- 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 and stock piles found at stone, rock, sand & gravel, and mineral quarries. Clarification of water from drilling operations.
- Biological wastewater**

Useful for the clarification, thickening and sludge settling of food processing wastewater and sewage treatment wastewater.

Application Instructions

A 3 kg DamClear FlocBloc will treat approx. 500,000 litres of water. The most common method for applying FlocBlocs is to place them at the entry point to the dam, at a point of turbulence that will ensure contact with most of the water flow.

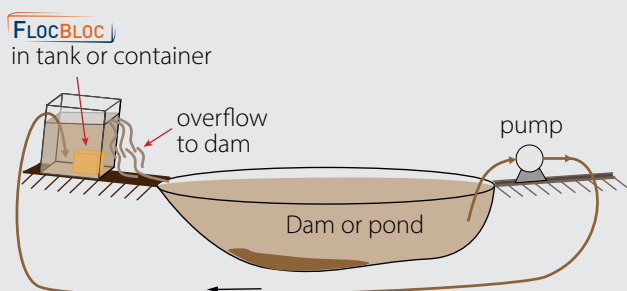
A point of turbulence is required to ensure good mixing of the flocculant with water, thus creating one may be required. FlocBlocs can be secured in a wire mesh cage if needed.



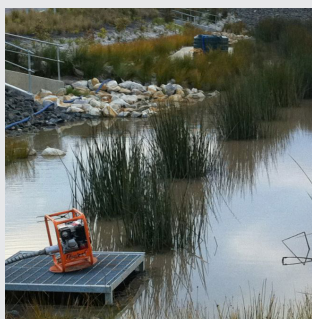
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Alternatively, water in a full dam may be recirculated using a pump. The return water is pumped into a tank (~1,000 L) in which the Blocs are secured in a cage. Treated water continuously overflows from the tank back into the dam. One or 2 pumps maybe required to achieve this depending on the size of the dam.



As water returns to the dam, solids settle rapidly, and the water is clarified. The time required to clarify the whole dam depends on dam size and water pumping rate, as most of the volume of the dam needs to be pumped and recirculated. When treated correctly, solids settling rates will approach 5 metres per hour.



Which product?

Two grades of FlocBlocs are available. Both are well suited to sediments and clays.

The following points as a rule of thumb may be useful, although these are not hard and fast rules:

- **DamClear FlocBloc FB-4308**
 - water pH is relatively neutral (pH 6–9)
 - salinity is low (conductivity <5,000 $\mu\text{S}/\text{cm}$)
- **DamClear FlocBloc FB-4058**
 - water pH is tending acidic (pH <6)
 - salinity is becoming significant i.e. conductivity >5,000 $\mu\text{S}/\text{cm}$
 - where chemical pretreatments such as alum or PAC are applied prior to the FlocBlocs

Pack sizes

FlocBlocs are available in two sizes, 1 kg and 3 kg.

The 3 kg Blocs come in a 4-pack or 6-pack box.

The 1 kg Blocs come as an 8-pack box.

Storage and handling

FlocBlocs are best left in their plastic container before use. They should always be kept dry, and are best kept out of the sun and stored at temperatures <25°C.

FlocBlocs have a minimum 5 year shelf life in unopened containers when stored in a low moisture (dry air) environment, out of the sun and at stable temperatures below 25°C.

Read the safety data sheet (SDS), including Sections 7 and 8 before handling (available on our website).

Even though FlocBlocs contain only non-irritating and non-toxic ingredients, we recommend always wearing gloves when handling.

We also recommend the use of safety glasses to protect the eyes, guarding against possible splashing during deployment, or dusting/particulates that may occur when opening or when breaking a Bloc apart into smaller pieces (a tactic that will increase surface area effectively increasing the dose rate).

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