

Waterbloccs®

A natural biological treatment for ponds, lakes, dams and aquariums.



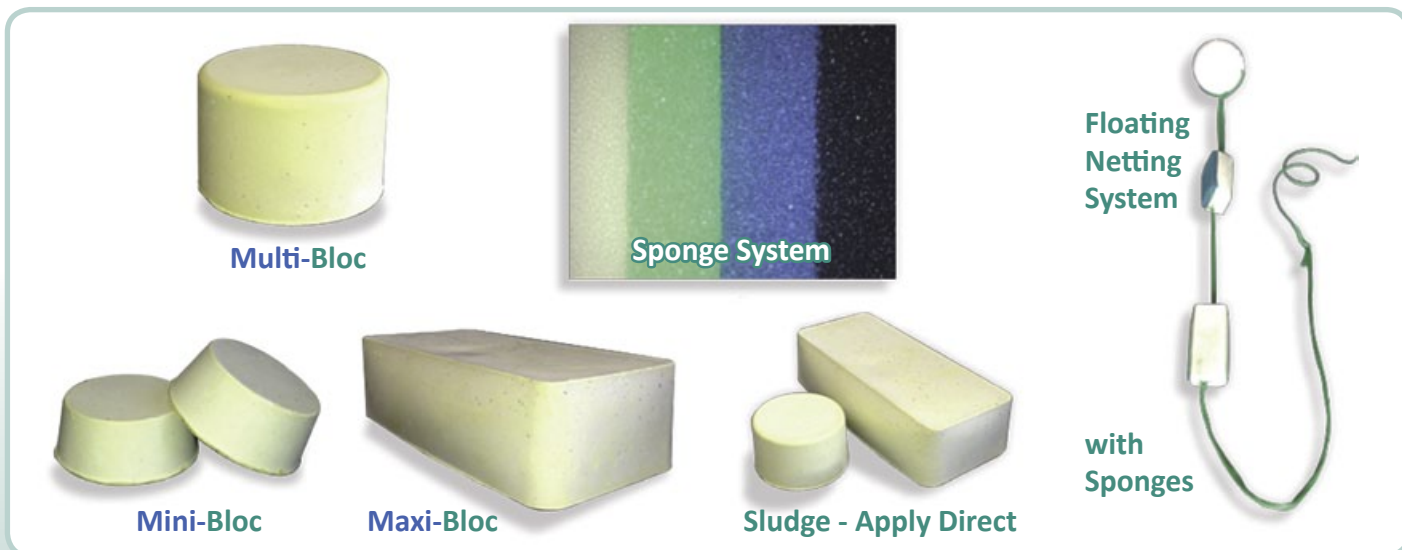
Waterbloccs® are a specially formulated porous mineral substrate containing multiple nutrients to promote the rapid growth of beneficial bacteria when immersed in aquatic water systems. Colonies of naturally occurring beneficial bacteria produce enzymes that consume organic waste, ammonia and unwanted nutrients that cause cloudy water and can deplete oxygen levels essential for aquatic life in a well balanced ecosystem. They will reduce the frequency of water changes in fish farms and aquariums. Ponds are dosed at the start of each season.

WHY THEY ARE SO EFFECTIVE?

- A unique biodegradable porous mineral substrate with ZEOLITE*
- Helps prevent oxygen depletion and precipitate organic matter
- Contains multiple organic and mineral nutrients for bacterial colonies
- Promotes rapid growth of naturally occurring beneficial bacteria
- Stimulates anaerobic bacteria growth for sludge reduction
- Promotes aerobic bacteria to consume excessive nutrients
- Buffers pH and adsorbs ammonia and dissolved heavy metals
- Suitable in salt or fresh water for all fish, plants and organisms
- Companion Sponge System for bacteria colony migration and transfer
- Netting System to position Waterbloccs® at different levels in ponds, lakes and dams



Water bodies clogged with decaying organic matter and sludge become oxygen depleted creating a toxic bottom layer of stagnant water unsuitable for fish and aquatic organisms. **Waterbloccs®** contain *ZEOLITE that has a unique atomic microcellular structure to increase internal substrate surface area and chemically adsorb ammonia and natural trace elements providing additional nutrients for colonies of beneficial bacteria that restore water balance. **Waterbloccs®** do not support combustion and have a long storage life.



Depending on where **Waterbloccs®** are suspended within a water column they will encourage the growth of a broad spectrum of aerobic bacteria in upper surface layers and in the absence of oxygen, anaerobic bacteria in fish toxic lower regions. Enzymes produced reduce sludge without undesirable by-products including smelly hydrogen sulphide and methane gases.

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DIRECTIONS FOR USE

PLACE THE RECOMMENDED DOSE of **Waterblocs®** underwater in an area with gentle or no water flow every three (3) months. Depending on water temperatures, **Waterblocs®** will take several weeks to develop large populations of *beneficial bacteria* within the *porous mineral substrate* and around the ZEOLITE particles. Best results are obtained when water temperature is 15°C (59°F) and above, pH 7.0 with aeration to 3ppm dissolved oxygen. Subsequent applications of **Waterblocs®** should be applied using the old sponges to assist bacterial transfer of established colonies to the new food source. Natural Bacterial treatments work slower than conventional chemicals and it can take several months before results are obtained.

Always use **Waterblocs®** in accordance with the instructions printed on the product label only.

SPONGE SYSTEM

Waterblocs® are activated when placed anywhere within a water body. However to maximise results *when suspended beneath floats*, use with biological open cell sponge supplied. This maximises migration of *enzymes* produced by *beneficial bacteria* colonies from *nutrient sources in the porous substrate* to the surrounding water. Place the sponge against the **Waterblocs®** and knot the netting to bind them together. Reused *sponges* often contain large populations of beneficial bacteria to quickly colonise repeat doses. Sponges should kept wet and out of direct sunlight until re-installed.

NETTING SYSTEM

TO TREAT SURFACE WATER - In lakes and dams, suspend **Waterblocs®** beneath a float with sponges secured in netting *knotted* at one metre (US 3 feet) intervals to a depth of 3 metres (US 10 feet) to maximise potential for aerobic bacterial colonisation to treat the surrounding water. The netting may be anchored to the bottom. In large water bodies, multiple floats 10 metres (US 11 yards) apart may be placed in problem areas.

TO TREAT SLUDGE - Place **Waterblocs®** directly in the sludge layer to stimulate the growth of anaerobic bacteria that devours organic waste. They will slowly biodegrade leaving only a natural ZEOLITE residue beneficial to soils and harmless to the marine environment. In aquariums, **Waterblocs®** may be partially buried in the gravel substrate on the bottom.

RECOMMENDED DOSE

Increase dosages for stagnant waters, aquatic systems containing large amounts of organic waste & in problem areas.

PONDS - Apply **Waterblocs®** to the bottom of the pond or use netting with sponges and float near the surface.

5 x **Mini-Blocs** / 1 x **Multi-Bloc** per 5m² or 1000L (US 6 yards²/264gal) of water.

LAKES & DAMS - Float and anchor **Waterblocs®** in surface water using the Sponge and Netting System. Additional **Waterblocs®** may be cast or placed directly into the sludge layer at 1 metre (US 1 yard) intervals.

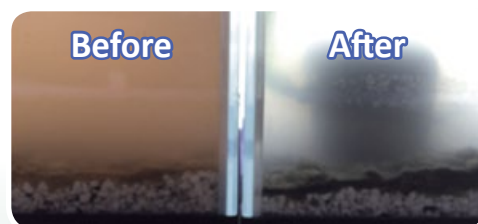
4 x **Multi-Bloc** / 1 x **Maxi-Bloc** per 20m² or 5,000L (US 23 yards²/1320gal) of water.

AQUARIUMS - Totally or partially bury **Waterblocs®** in aquarium gravel.

1 x **Mini-Bloc** per 50 Litre (US 13gal) and up to 100 Litres (US 26gal) of water.

PRODUCT SIZES

Mini-Bloc	- Each jar contains	10 x 20g Blocs (US 10 x 0.7oz) - Net weight 200g (US 7oz)
Multi-Bloc	- Each jar contains	4 x 200g Blocs (US 4 x 7oz) - Net weight 800g (US 28oz) Plus 2 x sponges + 2 metres (US 7 feet) of netting + 1 float
Maxi-Bloc	- Each box contains	4 x 1.2Kg Blocs (US 4 x 2lb10oz) - Net weight 4.8kg (US 10lb9oz) Plus 4 x sponges + 10 metres (US 11 yards) of netting + 2 x floats
Maxi-Bloc REFILL	- Each pack contains	4 x 1.2Kg Blocs (US 4 x 2lb10oz) - Net weight 4.8kg (US 10lb9oz)



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Waterblocs Visual Test



Tank Test Results

Two identical tanks were prepared with anoxic, stagnant and rancid water. **Waterblocs^R** was placed into one of the tanks and the following results were observed over a period of four months. Firstly we observed the rapid development of locally occurring Beneficial Bacterial on the **Waterblocs^R**. Then over the next few months the tank started to clear, insects colonized and the sludge level reduced.



7th March 2014

- Identical tanks prepared 1 week earlier using potable water, psyllium husks & urine.
- Hydrogen Sulphide gas odour.
- Both Tanks Opaque.
- Mean Day Temperature 30 °C.



18th March 2014

- Hydrogen Sulphide gas odour.
- Left Tank turning a light brown colour.
- Right Tank turning slight grey in colour.
- Waterblocs turning black with Beneficial Bacteria.
- Mean Day Temperature 30 °C.



10th April 2014

- Slight Hydrogen Sulphide odour.
- Left Tank red brown in colour.
- Right tank starting to clear.
- Right tank has some insect colonization.
- Mean Day Temperature 26 °C.



10th July 2014

- Left Tank cloudy with algae.
- Right tank totally clear.
- Right tank has some insect colonization.
- Mean Day Temperature 19 °C.