

DESCRIPTION

Z-BIO® AQU400 is a dry formulation consisting of a blend of bacterial strains on a gradually soluble support designed to help pond or lake clarification and silt removing.

It provides curative & preventative solution to chronically or accidentally polluted aquatic environments.

GENERALITY

The enclosed aquatic environments such as lakes and ponds are very unstable and complex systems. Because of poor water renewal, urban or industrial pollutions have a very strong impact and are very difficult to reduce.

Hydrocarbon or detergent spills form a film covering the surface of the water, slowing down the oxygen dissolution and considerably damaging the biological balance. The absence of current also increases this effect and often leads to the aquatic fauna and flora degradation.

Lakes receiving residual or simply running water with high concentration of fertilizing compounds (azote + phosphorus) will develop flora generating an excessive bacterial biomass using a lot of oxygen. The lack of oxygen and the excess of suspended matters will soon kill aquatic life, lake will silt up. This is know as Eutrophisation.

ADVANTAGES OF AQU400

- Its mineral support with high specific surface enhances coagulation & flocculation of suspended material. Water clarification can be observed only a few days after the beginning of treatment.
- The bacteria fixed on the **Z-BIO® AQU400** support decrease silt volume, mineralize it, modifying its physico-chemical characteristics.
- Bacteria separated from its support will completely degrade the oily film produced by hydrocarbons or detergents. This degradation re-establishes normal air/water exchanges and promotes a healthy aquatic environment.
- Bacteria of **Z-BIO® AQU400** have a higher specific utilization rate that allows a superior Nitrogen & Phosphorous consumption compared to naturally occurring bacteria. This way **Z-BIO® AQU400** stops the eutrophisation process.
- **Z-BIO® AQU400** will remain activity even in low temperatures
- The accelerated mineralization of sludge deposits on bottom of water avoids anaerobic process and bad odours.

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DOSAGE / DIRECTIONS FOR USE

Z-BIO AQU400 dosage depends on volume of water to be treated and pollutants to be degraded. However, average treatment will require :

1. Lakes, Ponds and Ornmental basins :

Seeding: 250g/m² of surface of water.
Repeat operation until complete clarification.

Maintenance: 120 to 150 g/m² of surface of water.

Apply maintenance dosage 2 to 3 times a year, preferably between spring and fall.

2. Aquaria

A yearly treatment is generally sufficient : 100 g / 100 Litres of water
If necessary, repeat operation 2 to 3 times a year.

PRODUCT APPLICATION

Z-BIO AQU400 must be evenly spread over the surface of water to be treated.

CHARACTERISTICS

Aspect : Grey granular powder
Granule diameter : 1 to 2 mm
Effective pH range : 5 - 8,5
Effective temperature range : 8 - 45°C

PACKAGING : 25 kg bags

Storage and Handling:

- Store in a cool dark place
- Avoid eye contact
- Do not ingest
- Wash hands thoroughly with warm soapy water after handling