

RBC 100

Municipal Starter, upset recovery and maintenance product

Septic tanks and animal waste treatments

Bio-Towers and Bio-Disks

Package treatment systems

(BOD, FOG, sludge reduction, biological start up and upset recovery)

Overview

A standard blend of bacterial cultures designed to quickly establish an active biomass and significantly increase the biodegradation of typical municipal waste materials. The result is a stable MLVSS, BOD reduction (including FOG's) and odour control. Ideal for start-up, upset recovery and maintenance.

Technical Description

The bacterial cultures selected for RBC 100 are capable of rapid activation when applied to municipal and domestic waste applications. Biomass quickly develops resulting in a significant BOD reduction. The strains are capable of producing cellulose enzymes active against tissue paper and a cascade of lipase enzymes required to degrade fats, oils and greases (FOG). The strains are also tolerant to free chlorine up to about 20ppm, making them tolerant to many household cleaning chemicals. The product also contains organic materials to bind heavy metals that would otherwise inhibit the re-establishment of nitrification

BOD reduction is also possible under microaerophilic conditions. RBC 100 will improve floc formation and sludge settlement, and help maintain a healthy bacterial population.

Also suitable for septic tank treatment and low load animal waste treatments.

Key Features and Advantages

- Performs within a broad temperature range from between 4°C to 35°C.
- Can degrade a wide range of household and municipal waste materials including toilet tissue, FOG, protein, starch and carbohydrates
- Becomes dominant and can consume a wider variety of alkanes.
- Promotes high rate of removal of BOD, COD and TOC.
- Provides higher bacterial growth to improve stability in response to organic overloads.
- Reduces toxicity to autotrophic nitrifiers to allow the initiation and maintenance of high rates of biological ammonia removal in waste water applications
- Tolerant to household cleaning chemicals
- Enhances flocculation in activated sludge.
- Facilitates rapid recovery from load-related shock caused by high COD loading and flows as well as toxic shock.



Product Data Sheet

Physical Aspect:	brown free-flowing powder
Packaging:	100 g water-soluble pouches / 10kg plastic pail 10Kg bulk powder
Stability:	12 months*
Product pH Range:	5.5 to 7.0
Product Density:	0.7 - 0.8 g/cm ³
Moisture Content:	Below 15%
Nutrient Content:	Biological nutrients and stimulants
Bacterial Concentration:	min 1x10 ⁹ CFU per gram
Usage Conditions:	Do not freeze. Take care not to inhale dusts. Avoid excessive skin contact. Refer to SDS

Applications

RBC 100 can be used for start-up, upset recovery and maintenance of:

- large municipal treatment plants
- bio-towers and bio-disks
- package treatment systems
- septic systems
- agricultural slurry

Product preparation

RBC 100 may be added directly to the waste influent stream or aerated basin. For toxic wastes or short retention times, re-hydration for between 30 to 90 minutes prior to its addition to a waste system is recommended, using 9L of water per 500g of RBC 100.

For best results, the make-up water temperature range should be between 21°C and 31°C.

Optimum conditions for use

The bacteria in RBC 100 perform within a pH range of between 6.5 and 8.5, with optimum activity near a pH of 7.0. Temperature affects the growth rate of the bacterial population and activity improves with a temperature of between 30°C and 37°C. No appreciable activity can be expected below 5°C and above 55°C.

Storage and handling

- Store in a dry place at room temperature.
- Avoid excessive inhalation.
- Avoid eye contact.
- Wash hands thoroughly with warm, soapy water after handling.

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