

RBC Pro Super

Overview

**Municipal and agricultural | Light and Heavy industry | Petrochemical and refinery
Food processing and pulp & paper | Waste water and solid waste treatment**

BOD, FOG, sludge reduction, biological start up and upset recovery surfactants, BTEX, alcohols, phenol, COD, leachates ketones, alkanes, naphthalene, polyaromatics, solvents, hard COD aliphatic hydrocarbons, polyaromatics, solvents, DRO, TPH, complex HC,

A high concentration and diversity of bacterial and fungal species combined with free hydrolase enzymes, and micro and macro nutrient packages. Ideal for any organic waste degradation application where the exact contamination concentrations and matrix are unknown

Technical description

Performs all the functions of RBC 100, 200, 300, 400 and 500. Refer to the individual Product Sheets for further information.

Key features & advantages

Can live in salinities ranging from 1-10%.
Performs within a broad temperature range from between 4°C to 35°C.
Can degrade a wide range of alkyl, aromatic and substituted hydrocarbons.
Utilises alkanes, a type of hydrocarbon in its metabolic process as its source of energy to break down oil into harmless compounds.
Becomes dominant and can consume a wider variety of alkanes.
The bacteria cultures in RBC Pro Super produce a bio-surfactant.
Capable of degrading oil in fresh, brackish, salt and hypersaline water
Improves maximum rates of organic removal as measured by 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
Provides the ability to degrade a wide spectrum of recalcitrant industrial chemicals.
Improves the waste treatment system stability.
Enhances flocculation in activated sludge.
Facilitates rapid recovery from load-related shock caused by high COD loading and flows as well as toxic upsets.

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Reduces the impact of production increases or changes in effluent quality.
Enables more rapid plant, seasonal, or maintenance start-up.

Physical Aspect	brown free-flowing powder
Packaging	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 Humic and fulvic acids Free protease, lipase, amylose, cellulase
Bacterial Concentration	min 5x10 ⁹ CFU per g Bacillus (6 species) Alcanovorax (1 species) Pseudomonas (2 species) Min1x10 ³ fungi CFU per g Fungi (3 species)
Usage Conditions	Do not freeze. Take care not to inhale dusts. Avoid excessive skin contact. Refer to SDS

Applications

RBC Pro Super can be used for multiple applications in the treatment of waste water and soil bio remediation. Consult our IWT or Bioremediation product Data and Service Sections of our website for further information, or consult Waterman Biocare Technologies..

Product preparation

RBC Pro Super 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 Pro Super. 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 Pro Super 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.

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Storage and handling

- Store in a dry place at room temperature. The recommended storage temperature is within a range of 1°C and 23°C.
- Avoid excessive inhalation.
- Avoid eye contact.
- Wash hands thoroughly with warm, soapy water after handling.

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