

OxyPlus BM350

Bioremediation

Wastewater treatment

Drainage/Interceptor/Grease trap

Septic systems

(hydrogen sulphide, ammonia, malodour, nitrate, FOG, Redox potential, nascent oxygen)

Overview

Highly concentrated, multi-use liquid product designed to oxygenate anaerobic environments and to re-establish the growth of aerobic bacteria. Can be used as an amendment to all waste water treatment applications, septic systems, aquaculture, grease traps, animal slurry treatments horticultural root zone applications and especially to deliver oxygen to *in situ*, land remediation applications.

Technical Description

OxyPlus BM350 comprises six oxygen and nitrogen containing compounds blended with natural wetting agents in a unique blending process needed to ensure chemical stability. The result is a multi-use oxygenating liquid product that helps stimulate or re-establish aerobic metabolism and respiration where low oxygen or anaerobic/septic conditions have made this impossible.

There are many waste treatment applications where low oxygen concentrations slow down microbial decomposition. These include all types of waste water treatment and land bioremediation, septic systems, treatment of agricultural slurries, treatment of fats, oils and greases (FOG) in drain lines, nutrient turnover in agriculture and aquaculture, as well as many other institutional and household applications.

Anaerobic bacteria thrive in highly reduced and low pH conditions and, in fact, some live only under such conditions. This environment leads most noticeably to malodour (typically ammonia and hydrogen sulphide, but also many partially degraded volatile compounds), methane production, sludges, and corrosion of metals and concrete.

It is not always possible to resolve this situation through aeration or oxygenate, so application of a concentrated liquid oxygen donor is the next best solution. The product benefits from a nascent oxygen species that is readily available to quickly oxidize reduced and malodorous compounds. Other ingredients are designed to release their oxygen atoms slowly over time thus controlling microbial metabolism without resulting in a flush of activity that quickly subsides.

OxyPlus BM350 can be used as a stand-alone product or blended with other liquids

Advantages

<p>Features</p>	<ul style="list-style-type: none"> • Unique formulation manufactured by a unique process • Comprises six slow release oxygenating chemicals • Highly concentrated • Capable of instantly oxidizing some malodours • Compatible with most chemical and microbial bio-augmentation products • Standalone product or an additive to other bioremediation products
<p>Benefits</p>	<ul style="list-style-type: none"> • Multi-use oxygenating product • Reduces septicity and increases redox potential • Controls Hydrogen sulphide and ammonia smells • Stimulated bio-augmentation products and natural microflora • Improves root zone environment enabling soil micro-organisms to release nutrients and stimulate plant growth • Low application rate • Low cost in use • Manufactured from natural salts and biodegradable wetting agents

Application Areas

Bio-Stimulation in Land Bioremediation

Alters anaerobic conditions to rapidly increase the biodegradation of contaminants found on industrial land and brown field sites. Improves efficiency and reduces timescale for both *in situ* bioremediation projects as well as ex situ applications such as land farming, biopiling, windrow and composting.

Wastewater Treatment

As a standalone treatment or additive to other treatment products OxyPlus BM350 will significantly stimulate aerobic metabolic activity, cell growth and active biomass formation.

Animal Slurry & Manure Treatments

Rapidly accelerates waste degradation. Keeps slurries pumpable and improves quality of manure. Reduces malodours and risk of plant burn and animal diseases. Suitable for use in holding areas, chicken coops, stables, milking parlours and pig sties.

Septic Tanks & Grease Traps

Reduces odours and stimulates the biological activity in Septic Tanks to ensure problem free operation of drainage fields. As a standalone amendment or additive to a grease trap maintenance product OxyPlus BM350 stimulates the oxidative steps of FOG degradation



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Ponds, Lakes & Aquaculture

Improves dissolved oxygen levels and reduces sludge build up in ponds, lakes and in fish farming. Prevents stagnation and eutrophication and enhances biological treatments for algae and blanketweed control.

Agriculture and Horticulture

Stimulates root zone micro-organisms to improve nutrient availability for all types of plants. Prevents anaerobic layer and black layer development and provides an oxygen source for plants in flooded/over-watered and waterlogged situations. Reduces thatch levels and improves soil drainage

Hobby and Leisure Applications

Reduces odours and stimulates biological activity to break down waste in Chemical toilet cassettes, sewage holding tanks and grey water holding tanks in caravans, motorhomes, narrowboats, Deep-sea power or sailing boats, ships and any other mobile waste facility or portable public toilet.

Directions for Use

Bio-Stimulation in Land Bioremediation

Dilute 4 ml in sufficient water to treat 1m³ of soil.

For *ex situ* applications apply evenly using a coarse spray.

For *in situ* applications use a suitable pump.

In both cases, several treatments may need to be applied as required (Consult Rumexo for specific instructions)

Wastewater Treatment

Animal Slurry & Manure Treatments

For liquid slurry apply at a rate of 20ml/m³/day

For manure or solid/crusted lagoons dilute 100ml in sufficient water to treat 1m³. Spray on to manure or pour into the collection pit as necessary

Septic Tanks

Flush 50ml/week into a toilet

Grease Traps

For a standalone application add 50ml/week into the system by manual or automatic dosing.

For inclusion in a liquid FOG product, add 250ml/5L

Ponds, Lakes & Aquaculture

Add the equivalent of 5ml/m³. Dilute total dosage required in sufficient water to evenly



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spread across the surface area of the pond/lake.

Agriculture and Horticulture

As a soil amendment dilute 1ml in 1L of water, to treat 1m² of soil surface.

For soil drench and for potted plants add 5ml into a 10L watering can and apply to the soil

Hobby and Leisure Applications

For chemical toilets add 25ml to enough water to cover the bottom of the cassette tank each time the toilet is emptied. For large holding tanks dose 25ml/week. Ideal for use with biological cleaners.

Packaging

2x5L, 20L, 200L

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.

The information provided in this Product Data Sheet is accurate at the date of issue and should be used for indicative purposes only. Please refer to your Company Representative for specific User instructions as to how these relate to your usage requirements. Please note that Rumexo Ltd is not liable for claims, damages, costs or expenses of any kind arising from the mishandling of the product or changes that might occur during the handling, storage and application conditions provided by any third party who does not follow the minimum requirements defined in the SDS. Please refer to the SDS for further information regarding the handling, storage and application procedures for the product.