

RUMEXO BIO-BLOCK

INTRODUCTION

Accumulation of fats, oils and greases (FOG) is the main cause of blockages and floods in drain and sewer lines, the cause of failure in lift stations and wet well operations, and results in malodour (oxidative rancidity, anaerobiosis, pest breeding grounds) in most cases. Problems caused by discharge of FOG are widespread and represent huge direct and indirect remedial action cost.

Rumexo Bio-Block is one of a number of solutions offered by Rumexo Ltd to mitigate some or all of these issues. These products are designed to be used from point of discharge (sink) through the entire drain line system right up to the sewage treatment plant. The modular design means there is a size to suit every application, larger or small, stored water or fast flowing effluent, land-based or marine.

Rumexo Bio-Block is a solid product intended for slow release of emulsifiers, bacteria to degrade the FOG, and odour counteractants resulting in a continuous, low maintenance treatment. The blocks are proven to completely dissolve in 4-6 weeks to fit with common service or inspection cycles.

Rumexo Bio-Block contains bacteria capable of degrading FOG. When combined with specific nutrients and slow release oxygen sources they can continue to break down FOG at the very low dissolved oxygen concentrations encountered in almost all drain line applications.

(**Rumexo Bio-Block** is also available in 50g size and called **Rumexo Bio-Puck**)

APPLICATIONS

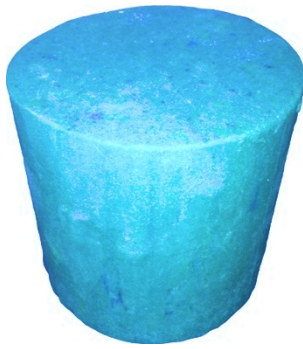
- Drain lines
- Grease traps/interceptors
- Wet wells
- Lift stations
- Waste water treatment plants

TECHNICAL INFORMATION

Rumexo Bio-Block is specifically manufactured for slow release. Combination of selected surfactants, binders and salts form a protective gel when the product is immersed in water. This ensures that turbulence and shear forces of fast flowing effluent does not over dose the system nor reduce the lifetime of the product. For example, the 5Kg Bio-Block will release approximately 125g active material per day – even at temperatures up to 50°C.

Additionally, **Rumexo Bio-Block** is available in a tight mesh geo-textile filter sock that further reduces release by about 10X. The sock is manufactured from stitch bonded cotton and provides high tensile strength (see illustration below). This is useful in particularly fast flowing waste streams, or where a longer life time is required (up to 3 months).

Rumexo Bio-Block is completely soluble and leave no residue for disposal. If used in the sock provided, this is biodegradable and can be disposed of as compostable waste.



Rumexo Bio-Block (blue)



Rumexo Bio-Block (5Kg & 2Kg)
In sock geo-tex sock

BENEFITS

- ✓ Easily placed at any position or height within the system dependent upon the application
- ✓ Requires no power supply so easy to install and maintain.
- ✓ Fit and forget; provides 24 hr continuous application
- ✓ Lasts for 4-6 weeks (net) or 4-12 weeks (sock)
- ✓ Low daily treatment cost
- ✓ Suitable for low and high daily flows (eg 50L/d for 50g **Bio-Puck**; 20,000L/d for 5Kg **Bio-Block**)
- ✓ Includes mal-odour counteractants (specifically H₂S)
- ✓ Reduces maintenance costs

ADVANTAGES

- ✓ Contains bacterial consortia specifically selected for degradation of FOG
- ✓ Side activities include degradation of a wide range of other sewage and food wastes.
- ✓ Degrades food and faecal wastes and reduces FOG and sludge so can reduce the frequency of pump outs.
- ✓ Mitigate or controls malodour (VFA's, H₂S, NH₃, other volatile sulphur/ammoniacal odours)
- ✓ Can reduce BOD/COD and TSS
- ✓ Simple and safe chemistry to compliment biological activity.
- ✓ Modular design to offer versatility and cost effectiveness.

SPECIFICATION

Product Type:	Rumexo Bio-Block , for biodegradation of FOG
Product Code:	Rum-BB (bp/2/5/20)
Unit weight/dimensions:	50g (5 cm diameter x 2cm depth) 2kg (10 cm diameter x 12cm depth) 5kg (16 cm diameter x 14 cm depth) 20Kg (30 cm diameter 20 cm depth)
Construction:	Solid (Blue)
Sock material:	Tight mesh cotton woven tube, bonded stitch
Microbial count:	Average 3e9/g
Microbial specification:	Consortium of 6 x Class 1 <i>Bacillus strains</i> (5 species), QPS certified.
Product Shelf-life:	24 months (unopened/cool/dry)
Customs Export code:	3002905090
Intrastat code:	30029050

PACAKAGING

SIZE	Bio-Puck 50g	Bio-Block 2kg	Bio-Block 5kg	Bio-Block 20Kg
Single Unit (pail/case)	60x50g Pail	6x2Kg/case	2x5kg/case	1x20Kg/case
Pallet	TBC*	65x(6x2Kg) (4 layers)	80x(2x5Kg) (4 layers)	40x(1x20Kg) (4 layers)

PLACE OF MANUFACTURE

This product is manufactured and shipped from the UK

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