

BioforZe MIX MBR

MULTIFUNCTIONAL DEGRADATION

BIOTECHNOLOGICAL SPECIALITIES

INDUSTRY

DESCRIPTION

BioforZe MIX MBR is a biological activator formulated from bacteria selected for their ability to degrade animal, plant and mineral oils and fats, starch, cellulose and many organic compounds (hydrocarbons, organic acids, etc.).

BioforZe MIX MBR also contains nutrients, trace elements and vitamins that accelerate the development of microorganisms and their water treatment capacity.

BioforZe MIX MBR is comprised exclusively of soluble compounds and does not include mineral compounds that could interfere with the correct operation of filtration membranes.

BioforZe MIX MBR is formulated with strictly non-pathogenic microorganisms, according to European Directive 2000/54/EC.

APPLICATIONS

BioforZe MIX MBR is particularly indicated for small to medium-sized biological wastewater treatment plants that have membranes to filter the effluent (MBR systems). The product seeds the treatment plants with highly active microorganisms to overcome situations of stress (high organic loads in the influx), to recover from toxic shock or pH, to start or restart the plant, etc.

Its high versatility in terms of organic compounds makes it particularly recommendable for sectors as varied as the food, cardboard, chemistry and textile industries, among others.

ADVANTAGES

Due to the action of bacteria selected for their capacity to act on industrial waste, **BioforZe MIX MBR**:

- Promotes rapid action, reinforced by the combined presence of bacteria, nutrients and trace elements.
- Is particularly effective to accelerate the start up or restart of biological treatment plants without additional seeding of external sludges.
- Increases the effectiveness of water treatment, even in the presence of mixtures of fats and detergents, fibres and oils, etc.
- Improves degradation of COD and BOD.
- Stabilises the treatment plant when the influent load varies.
- Improves sedimentation of activated sludge.
- Is not hazardous to handle.

DOSAGE AND INSTRUCTIONS FOR USE

The general dosage of **BioforZe MIX MBR** is between 2 and 10 g/m³ of influent/day.

Multiply this dosage by 5 during the first 3-7 days as a shock seeding.

In the case of start-ups or restarts of a treatment plant, apply for the first 2-4 days at 10–30 g/m³ capacity of the biological reactor.

The exact dosages to use in each case will be determined by our Technical Service after an in-depth study.

BioforZe MIX MBR is applied at the inflow of the biological system or directly in the aerated lagoon.

To get the best performance from the use of **BioforZe MIX MBR**, the following are recommended:

- Dilute the dosage of the product in water (100 g/litre) and let it act for half an hour so that the microorganisms reach an optimum rate of activity when they are seeded. After this activation period, shake and pour the suspension into the bioreactor.
- In small treatment plants, apply the product at the end of the day's activity, so that the microorganisms that are introduced have as long as possible (one night for example) to act and reproduce.

CHARACTERISTICS

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|------------------------|-------------------------------|
| - Appearance: | Heterogeneous flowable powder |
| - pH: | 6.8 – 8.5 |
| - Working temperature: | 5°C – 43°C |
| - Bacterial count: | 0.5 x 10 ⁹ /g |

RECOMMENDATIONS

- Store in a cool, dry place.
- Avoid prolonged contact with the skin.
- In the event of contact with skin, wash thoroughly with soap and water.
- Avoid inhaling the powder.
- For further information, see the product's safety data sheet.

PACKAGING

Non-returnable 20-kg drums.