

NOVOMAX DARTS

Description:

Novomax Darts is an efficient solution to reduce sedimented sludge and minimize the costs associated with solid management in wastewater lagoons. Its dense spike format allows it to sink quickly to the bottom, even when applied from the surface, acting directly on the system's most critical areas.

Thanks to its blend of microorganisms, enzymes, and micronutrients, it strongly stimulates biological activity and accelerates the decomposition of accumulated sludge. It is ideal for the treatment of lagoons, WWTPs, retention, and aeration ponds, and its compact presentation facilitates precise and targeted application.

Product Code	NOVOMAX DARTS
Active Ingredients	Bacillus bacteria
Packaging	30 lbs / 13.50 kg Darts of 6 oz / 170 g
Storage and Handling	Store in a cool, dry place (41–77 °F / 5–25 °C). Keep container tightly closed.



Benefits:

- Reduces sludge volumes
- Improves sludge digestion
- Reduces transport and disposal costs
- Reduces working hours
- Reduces odors
- Targeted dosing for cost-effective treatment

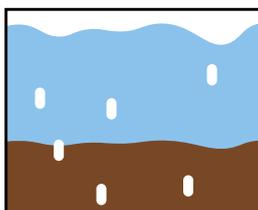


Fig. 1. Novomax Darts are dropped on the water surface and sink directly into the sludge layer.

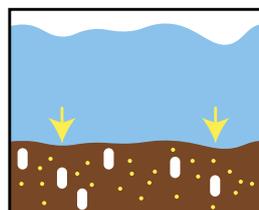


Fig. 2. Microorganisms, nutrients, and enzymes spread throughout the sludge layer.

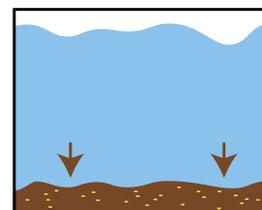


Fig. 3. Microorganisms, enzymes, and nutrients stimulate biological activity and reduce the sludge layer.

Performance:

Novomax Darts are formed as dense spikes that sink quickly to the bottom of a lagoon, even when applied on the water surface. When the spikes reach the sludge layer, they release billions of organisms, fast-acting enzymes, and essential micronutrients directly into the sludge.

This combination ensures rapid stimulation of biological activity and reduction of the sludge layer. This decreases dredging frequency, increases hydraulic retention time, and improves overall performance.



Product Specifications

Physical Properties:

- Color: Brown
- Form: Block or briquette

	Acre	Hectare
Initial Dosage	8-12	20-30
Maintenance Dosage	6-10	15-25
High Accumulation Area	8-12	20-30

Applicable Uses:

Novomax Darts are applied in treatment systems such as WWTPs and industrial and municipal wastewater lagoons, with the goal of efficiently reducing the volume of sludge accumulated at the bottom. This accumulation of solids can lead to loss of operating capacity, increased maintenance costs, and decreased system efficiency. By reducing sludge, Novomax Darts help recover the useful volume of the infrastructure, extend its service life, and reduce the need for dredging operations, which are often costly and invasive.

Its advanced formula contains a combination of beneficial microorganisms, fast-acting enzymes, and essential nutrients that, when released in a localized and controlled manner, stimulate natural biological activity at the bottom of the system. This accelerates the decomposition of organic matter, optimizes treatment performance, and contributes to more sustainable, practical, and cost-effective wastewater management.

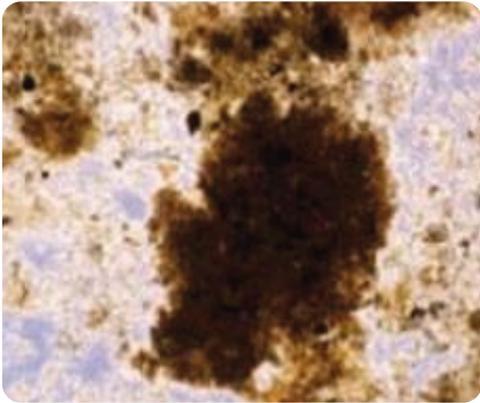


Figure 3

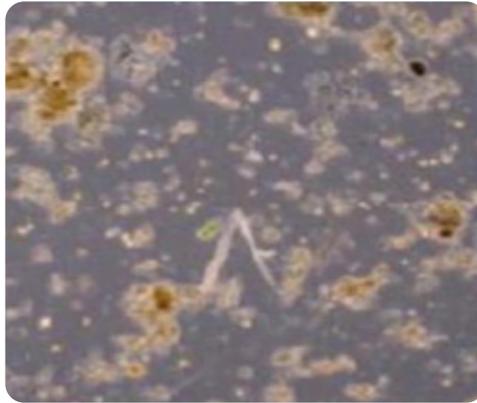


Figure 4

Figures 3 and 4 show the difference in the size and density of flocs in sludge samples taken from treated and untreated areas. The floc particles appear larger and denser, suggesting that the sludge compacts more easily. These changes occurred in parallel with a reduction in the depth of the sludge layer.

Application:

The Darts are thrown or placed directly on the surface of the lagoon or system to be treated. Even when applied from the surface, their compact and dense design allows them to sink quickly to the bottom, where the accumulated sediments are found.

It is recommended to distribute them evenly in areas with the highest sludge accumulation or where a loss of treatment capacity has been identified.

Once at the bottom, the Darts gradually release high-performance microorganisms, enzymes, and micronutrients that activate the biological decomposition of the sedimented sludge.

The frequency and quantity of application depend on the volume of the lagoon, the level of accumulated sludge, and the treatment objectives. In general, treatment begins with a shock dose and is then maintained with a periodic dose.

It is not recommended to apply them in areas of high turbulence or excessive flow, as they could move before settling properly at the bottom.

