

Vickzyme Powder

The enzymatic sludge reducer - when a decent amount of sludge reduction is needed in a short period of time



MalaTECH
water

VICKZYME POWDER - GENERAL INFORMATION

Vickzyme is an extremely easy and cost-efficient way to reduce the build-up of organic sludge naturally. Formulated specifically for quick and efficient sludge reduction both in aerobic, and anaerobic environment, Vickzyme's unique enzymatic blend attacks and digests organic sludge. Vickzyme is completely safe, biodegradable, non-toxic and non-hazardous.

Vickzyme is an enzymatic product with high active agent content. A significant ratio of excess sludge produced at a wastewater treatment plant consists of hardly biodegradable cell debris, which is residue of dead cells. Degradation of large molecules begin with exocellular enzymatic processes, which means the rate of enzyme production defines its speed. With Vickzyme, exocellular enzymes are introduced into the system, which significantly enhance the rate of cell debris degradation. Thanks to these, excess sludge production gets reduced, and the inactive part of the activated sludge decreases. We positioned Vickzyme for applications where high-rate, and decent amount of sludge reduction is required both in aerobic, and anaerobic environment. The product can be applied for the biodegradation of various organic wastes like wastewater raw, excess, mixed sludge, sediment of slurry ponds, sediment accumulated in tertiary treatment ponds etc.



Components of Vickzyme Powder are all-natural enzymes, coenzymes, cofactors, and vitamins, that intensify the metabolism, and endogenous respiration of bacteria that perform the wastewater treatment. Specific enzymes are dosed for breaking down the hardly biodegradable cellular components that become accessible due to cell lysis, and appear as biologically non-degradable at natural circumstances. Application of the product significantly reduces excess sludge production, and the volume of sludge to be treated or disposed at activated sludge applications. Sludge age can be increased at a wastewater treatment plant without the risk of filamentous overgrowth. Applying Vickzyme is beneficial to effluent parameters as well. Vickzyme improves water's clarity, which makes UV systems all the more efficient in disinfecting the water. It also helps reduce such effluent impurities as COD/BOD, Ammonium, Nitrite, Nitrate and TSS (total suspended solids) in activated sludge systems.

VICKZYME POWDER - BENEFITS OF THE APPLICATION

- Available for high-rate sludge reduction in anaerobic, and aerobic environment as well
- Reduces organic sludge by up to 60%
- Saves transportation, and disposal costs for the sludge
- Has boosted microbial activity and reproduction in most cases
- Cuts down on polymer usage/costs by decreasing sludge quantity
- Won't harm existing microbial environments
- Can be integrated easily into your plant's treatment routine



VICKZYME POWDER - FIELDS OF APPLICATION

- Sediment reduction in tertiary treatment / stabilization / polishing ponds
- Sludge reduction in aerobic and anaerobic sludge stabilization ponds or reactors
- Sludge reduction in sludge lagoons
- Sludge reduction in holding tanks or collection areas
- Sediment reduction in slurry ponds, and lagoons
- Sludge reduction in sludge digesters
- Particulate matter and sludge reduction in septic systems (to keep them flowing properly)
- Prevention of sludge build-up in distribution boxes leading to drain fields
- Excess sludge reduction in activated sludge reactors

APPLICATION OF VICKZYME POWDER DOSING, TECHNICAL INFORMATION

IMPORTANT INFORMATION:

For determining exact dosages for your WWTP, please provide us information by sending us our questionnaire filled with information as much as possible: [Click here for questionnaires!](#)

Whenever you have any questions, do not hesitate to [contact us!](#)

DOSAGE INFORMATION

SLUDGE PONDS: 15-40 ppm (based on pond's net volume) per treatment depending on type of the organic sludge, and its concentration in TSS. Treatments should be repeated in 1-3-month periods upon customer expectation in sludge removal rate and quantity.

ACTIVATED SLUDGE WWTP'S: 1-10 ppm (based on inflow rate m^3/d), dosage depends on cumulative COD load, raw wastewater type etc.

DOSING LOCATION

SLUDGE PONDS: Even spraying of Vickzyme solution (made with pure water) is recommended throughout the entire surface of the pond.

ACTIVATED SLUDGE WWTP'S: First biological reactor of the system, or primary treated inflow is recommended

PACKAGING INFORMATION The product is available in 20 kg safety pails which is the lowest unit for ordering.

STORAGE INFORMATION

Keep the product in a cool and dry place below 28 Celsius. Avoid exposure to direct sunlight.

