



BACKGROUND

The process has been developed from 20 years experience supplying aeration systems to the wastewater industry and research undertaken with local universities. R & D projects particularly in the fields of bioscience and chemistry were conducted to progress the natural science of animal slurry and the use of microbial organisms.



AERATION & MICROBIAL SYSTEMS

PATENT APPLIED



CONTACT US

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"What your grass would ask for"



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OPPORTUNITY



SAVE MONEY

Do you want to reduce the amount of fertilizer you buy?

Do you want to maximize the nutrient content of your slurry?

Aerobact fine bubble aeration process and microbial inoculant provides an easy to install, cost effective solution to save money and fully utilise the natural nutrients.

Aerobact has developed a unique farm slurry aeration system.

The process uses an easy to install fine bubble aeration system and uniquely developed mixed culture of bacteria to capture Nitrogen and enhance the natural nutrients.

BENEFITS

- 0 Eliminates lethal and toxic gasses
- 0 No fixing
- 0 Captures Nitrogen
- 0 Homogeneous liquid easy to spread
- 0 Excellent mixing
- 0 No Crust
- 0 Eliminates odour
- 0 Plant friendly fertiliser
- 0 Enhanced grass yield
- 0 Environmentally safe



PROCESS

During storage significant amounts of nitrogen can be lost from manure before it can be applied as a source of fertilizer

Our system provides oxygen to change the bioecology of the slurry to meet the BOD demands and provide dissolved oxygen within the liquid to create a healthy aerobic environment for the selected bacteria to thrive.

AERATION

The unique fine bubble diffusers require no fixing and are easy to install. Fine bubbles need less energy to create, while providing a much greater surface area for oxygen transfer to occur. Air is provided by compressors and can be supplied to suit a single or 3 phase supply.

INOCULANT

- Naturally occurring facultative micro-organisms, enzymes and micronutrients that accelerates decomposition of solids.
- Aerobic nitrifying bacteria are added to create a plant friendly form of soluble nitrogen.

SLURRY ANALYSIS

A full analysis is undertaken to determine the chemical and biological nature of the slurry and the potential for nutrient enhancement.