



FOR EARTH BIO PLUS

USING THE SCIENCE OF PROBIOTICS TO SOLVE ODOUR & WASTE WATER PROBLEMS

ODOUR AND WASTE WATER SOLUTIONS

- AEROBIC AND ANAEROBIC WASTE PONDS
 - LANDFILL LEACHATE
 - SOIL REMEDIATION
 - SEPTICS - WET AND COMPOST SYSTEMS
 - DRAINS & GREASE TRAPS
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What is FOR EARTH BIO PLUS?

Bio Plus is a selection of specific beneficial bacteria selected for their durability in harsh and toxic conditions and also their appetite for waste nutrients commonly found in human, animal and green waste. The beneficial bacteria are 'first generation' as cultured directly from laboratory conditions. This means the user gets maximum regenerations prior to the bacteria experiencing 'lysis' (see below). The beneficial bacteria are held dormant in liquid form and can be stored for 2 years. By adding Bio Plus to your overloaded waste water system, you will dramatically accelerate the Biological Nutrient Removal (BNR) and in turn considerably reduce the following waste water parameters; BOD, COD, suspended solids, Nitrates, Ammonia, Nitrogen, Algae, greases, oils and faecal Coliforms. Phosphorus is taken up by dying bacteria. (see Everson's Report).

What Type of Industries use Bio Plus?

- Council Waste Water Treatment Plants (WWTP)
- Abattoirs
- Fertiliser manufactures
- Landfills
- Composting
- Septics
- Equestrian Centres
- Feedlots
- Urban lakes & Ponds
- Soil remediation
- Food Processing



How is Bio Plus applied?

Generally Bio Plus is mixed 1 part product to 10 parts water and then can be surfaced sprayed onto waste water surface or can be dosed into drains and trenches. Bio plus should be applied weekly as all bacteria experience 'lysis'. **Lysis** or bacteria decay occurs because the regeneration time for bacteria increases with each regeneration until death occurs before the cell can regenerate. This is why regular application is essential.

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Do I need Aeration?

For Earth Bio Plus is very effective on its own but with overloaded waste water systems, aeration will improve and accelerate biological nutrient removal.

For Earth specialise in low cost, low energy use but highly efficient aeration systems. Bio Plus contains beneficial bacteria that require oxygen (aerobic) to regenerate and also beneficial bacteria that do not require oxygen (anaerobic) that use carbon to regenerate.

Our aeration system places an aerobic blanket in the top level of your waste pond and an anaerobic level in the bottom levels. By doing this the aerobic top level quickly deals with fresh incoming wastes and floating odorous waste while the anaerobic level deals with bottom sludge but isn't disturbed by aeration and odours are kept to a minimum.

With the combination of For Earth Bio Plus and our aeration systems our clients have been able to achieve dramatic results beyond expectations. (see Primo smallgoods & Launceston Council media reports).



APPLICATION

There are many uses for Probiotic products across all industries that produce organic waste or foul odours. Always contact your For Earth representative for a detailed application guide.

Further Information

For Earth Bio Plus contains no solvents or caustics chemicals and can be used with all metals and plastics. Bio Plus is 100% bio degradable and environmentally friendly. Bio Plus contains beneficial bacteria comprising of non-pathogenic bacteria, organic surfactants and nutrients.

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