

HYDRA Bio Growth



Contains Slow Oxygen Release Agent



HYDRA®

Features & Advantages

- ◆ Increase total soil microbial population.
- ◆ Enhance enzyme diversity.
- ◆ Speed aerobic and biological activities at high moisture conditions.
- ◆ Support healthy roots by enhancing symbiotic fungi growth.
- ◆ Maintain and protect healthy plant roots.
- ◆ Improve hydraulic conductivity of the soil allowing more efficient movement of oxygen and nutrients.
- ◆ Aids in plant growth rate.
- ◆ Promotes development of symbiotic fungi helping to maintain healthier roots
- ◆ Includes slow oxygen release agents, select bacterial strains (both aerobic and anaerobic).
- ◆ Hydra Bio-Growth can be used for soil amendment in agricultural, horticultural and forestry applications.
- ◆ It will slowly decompose in the moist soil, generating oxygen and the corresponding minerals.

The Problem



The lack of sufficient oxygen for the weakened root system in a compacted and/or waterlogged soil is the main cause of death.

Heavy rain falls or faulty irrigation techniques may lead to low oxygen content in the soil. Soil may become waterlogged due to these factors.



Sand, loose soil, limestone, silt all clog together when unstable soil is irrigated using rain guns (or after heavy rains); this creates a seal which is unreceptive to carbon dioxide and oxygen.

In addition, aeration process is difficult in the soil containing low organic matter.



Some plants need high temperature and abundant sunshine to grow; the condition may lead to lack of oxygen in the soil.

All these factors result in stunted root and undergrowth of plants, non-germination of seeds, poor yields etc.

The Solution

Hydra Bio-Growth is used for soil amendment purposes in horticultural, agriculture and forestry. The product decomposes slowly upon mixing with moist soil, giving out oxygen along with the corresponding hydroxide in the process. Hydra Bio-Growth is able to modify the biological activity of the soil.

Hydra Bio-Growth is especially useful in tree transplantations; assisting the tree to acclimatize quickly and aiding in strong radical development. Most seedlings are unable to survive the "post operational shock" from transplantation due to loss of radicals, lack of appropriate care, and unfriendly soil.

Absence of sufficient oxygen in waterlogged or compacted soil may also prove fatal to the transplanted seedlings.

Adding Hydra Bio-Growth in the soil ensures continuous supply of oxygen to the root balls for a long period, alleviating the effect of transplantation and helping the tree/seedling/plant to become well established enabling the tree to reach mature status earlier.



How To Use

Organic soil improver for better plant and root development. Highly useful when transplanting. Allows better absorption and utilisation of water and nutrients from the soil. Soil conditioner to maintain healthy plant roots.

Increases total soil microbial population and enhances enzyme diversity. Speeds aerobic and biological activities at high moisture conditions. Maintains and protects healthy plant roots.

Improves hydraulic conductivity of the soil allowing more efficient movement of oxygen and nutrients, this effect is especially useful in heavy soils.

Gives plants the ability to absorb more water and nutrients and use them more efficiently.

The product also greatly diminishes and often eliminates altogether the incidence of attack by pathogens such as Pythium and Botrytis.



Hydra Bio Growth includes slow oxygen release agents along with natural micro-organisms of the soil capable of interacting with the plants. The constituent strains include both facultative and aerobic organisms.

Hydra Bio Growth acts in two ways to enhance plant growth:

- By directly stimulating the growth through the improvement in nutritional status of the root environment.
- By reducing and sometimes altogether eliminating the risk of attack from deadly pathogens like Botrytis and Pythium.

Hydra Bio Growth offers excellent result for wide range of plant transplantations. Some of which are capsicums, tomatoes, cucumbers, lettuce, and various herbs, ornamental flowers.

Dosage Rates

Use blue measuring scoop supplied

1 heaped scoop = 20g

Mix with soil or compost add around plants roots

- Small plants add 1 heaped scoop.
- Shrubs add 2 heaped scoops.
- Trees add 4 - 8 heaped scoops depending on size of tree.

Laboratory Facilities

Hydra International Ltd.'s Research & Development Laboratories are a hub of activity where new products are developed and formulated. We have working relationships with our raw material suppliers, many of these suppliers are major world-wide chemical manufacturers with their own development laboratories.

As a company we are well known in the chemical industry for being receptive to cutting edge new chemicals which can be incorporated into our products to achieve performance advantages. An important part of the International Standards that we hold is that of constant improvement. We show that we have achieved this at every independent audit.



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