



EnviroPerfect Solutions

Super Hume, Humic Acid

Reduce Fertilizer costs by as much as 30%.
Reduce Water Consumption by as much as 50%.

Benefits of EPS Super Hume On Turf

Improves soil structure

- Prevents high water and nutrient loss in light, sandy soils.
- Increases aeration of soil and water retention in heavy and compact soils.

Improves Nutrient and Water Uptake

- Enhances the uptake of nitrogen.
- Re-solubilizes nutrient elements (N, P, K + Fe, Zn and other trace elements) into forms available to the turf.
- Improves water-soluble inorganic fertilizers retention in the root zones and reduces leaching.

Stimulates plant growth

- Increases plant enzymes production.
- Encourages growth and proliferation of desirable micro-organisms in soil.
- Increases germination and viability of seeds.
- Enhances turf natural resistance to disease and pests.

Reduces fertilizer and water consumption

- Increases water-holding capacity of soil and thus helps to resist drought.
- **Reduces** fertilizers and pesticides requirements by up to 30% or more.

Overall improvement

- **Colour**
- **Density**
- **Root depth and mass**
- **Drought tolerance**

FAQ about Humic Acids

What are the sources of Humic Acids?

Humic acids are complex molecules that exist naturally in humic matter found in soils and are an excellent natural and organic way to provide plants and soil with a concentrated dose of essential nutrients, vitamins and trace elements.

The best sources of Humic Acids are found in soft brown coal referred to as Leonardite. Black Earths' humalite is a weathered type of sub-bituminous coal is similar to lignite / leonardite, but of better quality. It has lower ash and toxic metals, and it has higher content of humic and fulvic acids.

What do Humic Acids do?

Humic Acids stimulate and promote plant development, resulting in stronger, healthier turf. Humic Acids improve the structure of soil and increase water retention, seed germination and root growth. For soils to remain fertile, humus must either be replaced or added. Applying Humic Acids does this and increases the natural fertility process in the soil.

How is this accomplished?

The most important feature of Humic Acids is their ability to make nutrients more readily available to the plant for the proper growing process. As a result, Humic Acids produce three types of effects on soil and turf. They physically modify the structure of soil; they chemically change the fixation properties of the soil; and they biologically stimulate the turf and the activities of microorganisms.

Are Humic Acid Products Fertilizers?

No, they are not fertilizers, but complement normal fertilizers and a well-balanced fertility program. Humic Acids do not supply nutrients in the conventional sense, but increase their availability. They are not a solution in themselves, but part of a balanced program. When Humic Acids enter the turf, increased cell division and root development is the result. Turf stress is decreased, and the the quality of turf improves.

What crops will Humic Acids help?

Tests have shown that Humic Acids benefit all types of grasses. As in nature, results will vary according to soil and weather conditions. In general results are usually observed in the first growing season. You will see an improvement every year as the soil fertility increases with regular application of Humic Acids.

Will Humic Acids harm the soil?

Humic Acids are organic and free of any harmful substances. They will not contaminate the groundwater or soil and are environmentally safe. In addition, Humic Acids reduce the availability of toxic substances in the soil, prevent nitrate and pesticides leaching into the ground water and decrease the use of fertilizers. They also reduce the over-salination problem in the application of water-soluble mineral fertilizers and are an effective means in erosion control.

When should Humic Acids be Applied?

They can be applied in the spring or fall. Humic Acids can be applied by the irrigation system with appropriate equipment or manually.