

- Quickly enhances CEC by 4-8 folds in a matter of days.
- Improves soil structure and root development.
- Increases porosity in heavy soils and enhances nutrient retention in sandy soils.
- Improves microbial activity in soil-less medium and provides buffer against adverse conditions.



Excellent root development after use of Agrisol soil amendments



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ORGANIC SOIL AMENDMENTS



INNOVATIVE CROP SOLUTIONS
 Solution de culture innovants



Greengro Fertilizer Inc .

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When to Apply

It can be used at any growth stage. When used at critical stages like early vegetative growth, flowering & fruiting, it will provide vital energy to the plants.

Drip: One heavy first application @6-7 litres per 1000 sq. metres or 25-30 litres per acre is highly recommended for all set-ups. For ongoing use, apply smaller quantity 1:800-1000 along with fertilizer solution.

Drench: Use 1:40-80. Use 6-7 litres per 1000 sq. metres or 25-30 litres per acre using heavy nozzle, 1-2 times during crop cycle. In open field, 400-500 litres of water per acre should be used for adequate drenching.

IMPORTANCE OF ORGANIC MATTER

Soil organic matter (Humus) is a mixture of dark brown organic substances formed by decomposition of plant residues. Microorganisms further break it down into Humic Acid. It plays a major role in soil fertility, both in physical as well as chemical aspects. Physically, it helps the soil to retain moisture and encourages the formation of good soil structure. Chemically, it has many active sites which bind to nutrients ions, making them more available. For comparison see soil particle with and without humus (Fig. 1. Bare soil Particle & Fig. 2. Soil particle with Agrisol EARTH BOOSTER/ROOT CARE).



Fig. 1

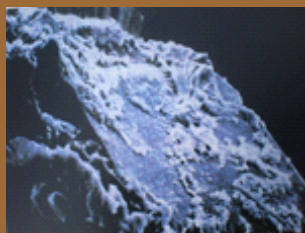


Fig. 2

About 70% of soil organic matter is lost after 2-3 years of cultivation and it must be replenished. Traditionally it was done by ploughing in stubble and plant residue or through manure/compost. One ton of manure/compost only contains 0.5-2.0 pound of soluble humus which is inadequate to fulfill today's extensive agricultural needs, hence the importance of active humus addition to the soil. This can be achieved by applying Agrisol humus products, namely EARTH BOOSTER and ROOT CARE. Both products are derived from Humic Acid Derivatives.

EARTH BOOSTER

EARTH BOOSTER is 100% granular soil amendment derived from natural organic sources. It is a growth stimulant enriched with wide range of naturally occurring minerals and plant based materials. It

It contains high organic matter (68-72%) level. Although it is not a fertilizer, but a complement to fertilizer, it contains fair amount of NPK and essential micro nutrients from natural sources for plant development and growth. Because of its high organic content it is especially useful for soil that is low in organic matter.

BENEFITS

- Provides carbon sources needed for microbial growth, hence stimulates microbial activity and improves soil structure.
- Enhances water holding and nutrient retention capacity.
- Improves absorption of minerals for root & plant growth.
- Promotes vigorous growth and better root structure.
- Improves nutrient use efficiency and reduces fertilizer requirement up to 30% by minimizing leaching and by enhancing nutrients holding capacity.
- Provides buffering against less available ions.
- Breaks the compact clay soil thereby improving water penetration and provides better conditions for root development. In sandy soil, it improves water and nutrients retention.
- Better seed germination due to good water and food availability around seed.
- Its inclusion in potting mixture helps raise healthy and vigorous seedlings with better root development. It is an ideal medium amendment for all crops grown in open fields, nurseries or greenhouses.
- Chelates micronutrients and increases their availability to plants.
- Healthier plants give higher yield because microorganisms continuously breakdown humus and more nutrients are available for uptake.
- Helps release fixed nutrients which are then available for plant needs.
- Due to low pH values its application in soils with high pH could help bring pH in acceptable range

DIRECTIONS FOR USE

Cereals & Oilseeds: Use 5 - 15 kg /acre applied at sowing time.

Fruits & Vegetables: 30 - 50 kg/acre during early spring or at plantation.

Turf: 40 - 50 kg/acre.

Nursery (Soil Mix): 3 – 5 kg/m³.

Note: EARTH BOOSTER can be mixed with seeds and non-urea based fertilizers. When used as fertilizer mix, apply EARTH BOOSTER immediately after mixing.

ROOT CARE

A 100% organic liquid compost containing Humic Acid Derivatives for soil/medium application. It is an ideal medium amendment for all crops grown in open field and greenhouses. Apart from its high Humic Acid content (12%), it is enriched with vital macro and micro-nutrients from natural sources for better crop production. It is manufactured by using state of the art fermentation process.

BENEFITS

- Enhances buffering capacity of soil that helps maintain steady pH.
- Reduces erosion and leaching of nutrients.
- Encourages microbial activity in the soil.
- Increases nutrients & water retention capacity of soil.
- Improves Cation Exchange Capacity (CEC) of soil.
- Contains Humic Acid Derivatives in ready to use form for plant uptake.
- Adds active organic matter in inert mediums like peat moss, coco, rock wool, clay pallets, etc.