

Fert-Amino

NATURAL GROWTH BIOSTIMULANT

Energizing solution for powerful plant growth and recovery of stressed plants

Fert-Amino is a very rich in amino acids natural liquid biostimulant specially designed for promoting the plant growth. It derives from natural raw materials and affects the cell tissues of the above ground part of the plants by influencing the biological processes which take place inside the cell membrane.

Fert-Amino contains an ideal combination of plant nutrients and amino acids that can be immediately absorbed by the leaves and the shoots. For this reason it helps the shocked and riveted plants recover rapidly and boosts the growth of all crops as well.

TYPICAL ANALYSIS (w/w)

Amino acids	20.0 %
Organic matter	24.0 %
Nitrogen (N)	3.2 %
Phosphorus (P_2O_5)	2.1 %
Potassium (K_2O)	1.5 %
Calcium (CaO)	0.3 %
Others compounds: Micronutrients, Enzymes	

The importance of amino acids in plants

Plants as all living organisms consist of cells. One of the main ingredients of cells are proteins. Amino acids are organic compounds which form the proteins while they act as raw material for the biosynthesis of a large amount of organic compounds inside the plant.

Amino acids contribute to the formation of chlorophyll leading to amplified photosynthetic activity of the plants. This results in increased carbohydrates concentration inside the plant. Carbohydrates store energy (by forming starch) or act as structural components of the plants (e.g. cellulose). Fert-Amino is a very rich source of the following L-amino acids:

Aspartic acid, Threonine, Serine, Glutamic acid, Glycine, Alanine, Cysteine, Valine, Methionine, Isoleucine, Leucine, Tyrosine, Phenylalanine, Lysine, Histidine, Tryptophan, Arginine, Proline, Hydroxyproline.

Due to its specially designed synthesis, Fert-Amino plays a major role in many biological processes that take place inside the plant, since:

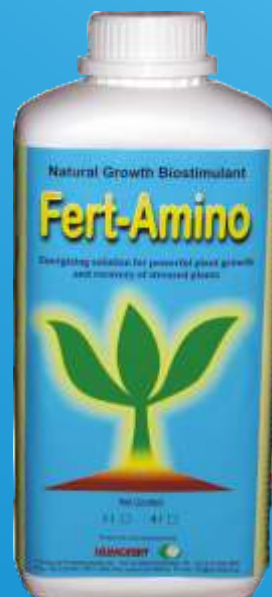
- The contained Aspartic and Glutamic acid affect significantly the transportation and storage of nitrogen in the plant cells.
- The high concentration of the contained Tyrosine and Glycine contributes highly in the process of photosynthesis.
- The presence of Proline stabilizes the cell membrane of the plants.
- Hydroxyproline adjusts the water balance of the plant and fortifies the plant cell wall.
- Tryptophan assists in the production of auxins which play a key



Control

Fert-Amino

Petuna plants undergone shock caused by frost. The treated with Fert-Amino plant had fortified resistance and recovered very soon.



USES

Fert-Amino aims in the plant's growth and that is why it is recommended to be applied in the early growth stages (in the beginning of growth and before blooming). It is also recommended to be applied in cases of plant stress caused by frost, drought, heat, phytotoxicity due to salinity or inappropriate application of pesticide. Furthermore, it is recommended in cases of stressed plants due to infections of pests and/or diseases.

APPLICATION

Fert-Amino is applied foliarly diluted in an appropriate amount of water (dilution rate: 1 l/500) in conjunction with a foliar nutritional program or individually in cases of plant stress caused by environmental, biotic or other factors.

CROPS	APPLICATION STAGES	DOSAGE
Fruit trees	Before blooming, at the start of the blooming and at the petal fall	2.5-5 l/ha
Vineyard	At the start of the spring growth, at 45 - 60 cm shoot length and during the elongation period	2-4 l/ha
Citrus	Before blooming and at full bloom	2.5-3.5 l/ha
Cereals	At 10 - 20 cm growth	1-2 l/ha
Alfalfa, Clover, Fodders	Early in the spring and right after every cutting	2-2.5 l/ha
Cotton	At the start of blooming and 7 - 10 days later	2-2.5 l/ha
Rice	At the stage of 3 to 5 leaves	1.5-3 l/ha
Corn	At 15 - 20 cm growth and repeat at the stage of 23 -35 cm growth	1-2.5 l/ha
Strawberry	When there is enough foliage to absorb the spray, and at the first blooming	2.5-3 l/ha
Tomato, Pepper, Eggplant, Squash, Melon, Watermelon	At 15 - 20 cm growth and before blooming begins	2-4 l/ha
Cucumber, Bean, Pea	At the stage of 4 true leaves and at the 1st pro blooming stage	2-4 l/ha
Broccoli, Cauliflower, Lettuce, Cabbage	At 4 to 6 true leaves . Repeat 10 - 15 days later	1-1.5 l/ha
Potato, Carrot, Onion, Leek, Radish	At 10 - 15 cm growth and 2 - 3 weeks later	1-1.5 l/ha
Asparagus	During growth at spring	1.5-2 l/ha
Endive, Chicory	At first 4 true leaves and 15 days later	1.5-2 l/ha
Stressed plants	Apply after a heavy shock of the crop at a rate of 1 l/400 l of water. Repeat after 7-10 days	

