

ROOT-CARE

Special Biostimulant

Designed for the improvement of the function of the roots and the increase of the productivity in all crops

ROOT-CARE is produced from the combination of organic raw materials and contains various plant extracts, natural organic polymers, chelated micronutrients and sugars. This combination affects the root tissues in many ways and activates the biological mechanisms which control the various functions of the root (water and metal uptake, elongation, energy storage and in some cases rebirth). In parallel, the contained in **ROOT-CARE** plant substances affect the physicochemical properties of the soil (lattice structure, permeability, cation exchange capacity) and the surface tension of the water while having a positive effect on the growth and multiplication of the beneficial natural microflora and fauna of the soil constituting **ROOT-CARE** an important ally of plants in periods with stress caused by various factors.

SOLID FOUNDATION

It is known to all that a healthy and well developed root is necessary for the growth of a plant. **ROOT-CARE** contains substances (amino acids, humic acids, natural hormones, micronutrients) that play a key role both in the growth of the root and the integrated nutrition of the plant. By achieving an increase in the capacity for water uptake, nutrient assimilation and acceleration of the cellular processes that take place in the root and the root hairs of the plants, **ROOT-CARE** contributes to the creation of a strong and very functional root system.

FERTILE SOIL

The soil in which the plant is established must have the suitable properties in order the root to be able to grow. Since in most cultivated areas soils are not the appropriate ones due to intensive cropping, low quality of the irrigation water and excessive mineral fertilization, the amendment of these soils is necessary. **ROOT-CARE** due to its excellent content which includes humic acids, plant

saponins, carbohydrates and plant oils, it provides a higher water retention capacity, a higher permeability of the soil, a reduction of the conductivity of the soil, an enhanced cation retention and exchange with the root as well as additional organic matter.

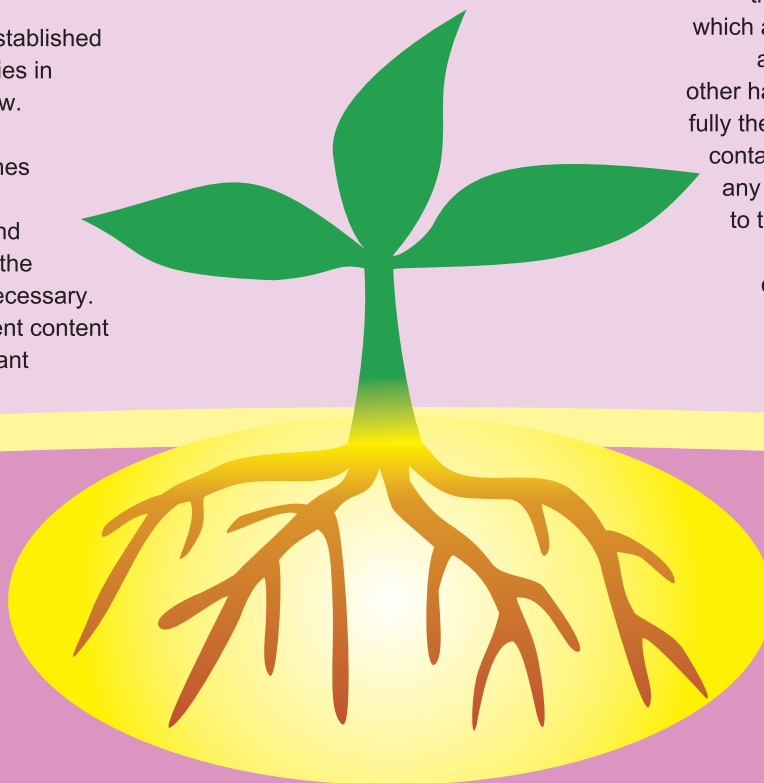
GREATER SAFETY

ROOT-CARE contains a variety of phytochemicals (saponins, plant limonoids, plant terpenoids, steroidal glycosides, polyphenoles, tanins) that act in many ways preventing the occurrence of problems that the plant roots deal with. In this way the possibility of production losses is reduced since plants remain

thriving and vigorous throughout their growing season. Moreover plants treated systematically with **ROOT-CARE** show a significant increase of their resistance against intense weather phenomena such as prolonged drought, frost and high temperatures while in the same time they maintain their productivity.

RESPECT THE ENVIRONMENT

Since **ROOT-CARE** is rich in sugars, humic acids and other organic compounds, it is an excellent food source for the beneficial soil microorganisms which are necessary both for the plants and the entire ecosystem. On the other hand, microorganisms biodegrade fully the natural raw materials which are contained in **ROOT-CARE** eliminating any residue of the product. If we add to the above the low phytotoxicity of the product, then it is really clear that **ROOT-CARE** is an ally of the plants and the environment.



SYNTHESIS

Plant saponins
Steroidal glycosides
Plant oils
Plant limonoids
Plant terpenoids
Polyphenoles
Tanins
Humic acids
Sugars
Carbohydrates
Amino acids
Plant hormones
Chelated micronutrients
(Fe, Zn, Mg, Mn, Cu, B, Mo)



PROPERTIES

- Promotes root growth in all crops.
- Increases nutrient uptake from the root.
- Enhances the biological processes that take place in the root system.
- Promotes the productivity of plants.
- Improves the characteristics of the soil.
- Reduces the water losses in the soil.
- Washes salts from the soil and reduces nitrate accumulation.
- Increases the beneficial microbial population of the soil.
- Increases the resistance of the plants against stress caused by various factors.
- It is not phytotoxic.
- Does not contaminate the environment.

APPLICATION

ROOT-CARE is recommended for vegetable crops, horticulture, fruit trees, citrus, ornamentals, vineyard, lawn etc. It is applied through the irrigation/fertilization system by drenching or spraying the area around the roots after it has been diluted in water. Apply within 8 – 10 hours after the product's dilution.

Note: The number and the frequency of the applications may vary depending on the crop, the growth stage, the environmental conditions and the condition of the crop.

COMPATIBILITY

It is compatible with most chemical pesticides, as well as liquid and water soluble fertilizers. In any case it is recommended to conduct a compatibility test before mixing in the tank.

Crop	Application rate	Application frequency
Fruit trees	10-20 l/ha	3-4 times a year
Vineyard	7.5-10 l/ha	Every month from the initiation of the new growth until harvest
Citrus	5-10 l/ha	3-4 times a year
Trees	10-20 l/ha	3-4 times a year
Strawberry	7.5-10 l/ha	Every month throughout the year
Tomato, Cucumber, Pepper, Eggplant	5-10 l/ha	Once a month during the growing season
Squash, Melon, Watermelon	3-5 l/ha	Once a month during the growing season
Bean, Pea	3-6 l/ha	Once a month during the growing season
Broccoli, Cauliflower, Lettuce, Cabbage	3-5 l/ha	Every 15 days during the growing season
Potato, Carrot, Onion, Radish	3-6 l/ha	Every 15-30 days during the growing season
Asparagus	7.5-10 l/ha	1-2 times per year
Spinach, Celery, Endive, Chicory	3-6 l/ha	Every 15-30 days during the growing season
Ornamentals	5-10 l/ha	Every 15-30 days during the growing season
Bushes	5-10 ml per plant	Once a month
Lawn	5 l/ha	Every 15-30 days

Produced by

