

# BIONEM

## Soil amendment solution with beneficial microorganisms

**BIONEM** is a soil amendment solution containing beneficial soil microorganisms which create optimal conditions for the development of very productive plants resistant to stress caused by environmental and biotic factors. In parallel the liquid substrate that retains the microorganisms, contains substances (polysaccharides, oligosaccharides, amino acids, trace elements and macronutrients) that improve the physicochemical properties of the soil, increase its fertility and obtain high yield crops.

### MODE OF ACTION

- The beneficial microorganisms of **BIONEM** degrade the organic matter of the soil which results in the chelation of the most mineral nutrients.
- The application of beneficial microorganisms increases their density in the soil around the rootsphere and therefore creates asphyxiation conditions for the rest microorganisms.

### BENEFITS

- Increases the beneficial microbial population of the soil.
- Enhances the action of the beneficial microorganisms which are already present in the soil.
- Improves the biological structure of the soil.
- Enhances the water retention capacity of the plants.
- Improves the cation exchange capacity.
- Allows a better aeration of the soil near the roots.
- Ecological formulation that does not unsettle the balance of the ecosystem.
- Does not contain pathogens since it is being manufactured in sterile conditions.

### RECOMMENDED CROPS

**BIONEM** can be applied on vegetables, herbs and aromatic plants, peanuts, ornamentals, lawn, fruit trees as well as tuberous crops.

### APPLICATION

It must be applied prior to or during planting, right after the transplanting and every 15-25 days. It can be drenched around the root zone but it has to be incorporated in the soil either mechanically (by hoeing) or by watering the plants. **BIONEM** can also be applied through the irrigation/fertilization system.

### APPLICATION FREQUENCY

It is recommended to apply the product at frequent intervals every 15-25 days. When the applications begin from the initial stages of the plant growth, plants are more resistant to stress in their critical growth periods which results in higher and better harvested yields.

### APPLICATION RATE

Application through the irrigation system: 5 l/ha dissolved in the water at a ratio 1:100.

Application directly to the soil: 5 l/ha mixed with 500 kg of organic manure. Initially the product is sprayed on the manure, then the manure is being spread and incorporated mechanically in the soil.

### COMPATIBILITY

Since **BIONEM** is affected by fungicides it must be applied carefully. The mix of **BIONEM** with fungicides in the tank is prohibited. In any case it is recommended the applications of fungicides in the soil to be avoided at least 15 days before or after the application of **BIONEM**.

### LIFE SPAN

1 year.



Produced by

**HUMOFERT**



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