

How to use PENTAKEEP-super

PENTAKEEP-super (EC Fertilizer) is a NPK fertilizer blend 8-5-3 with 5-aminolevulinic acid, which promotes plant photosynthesis. 5-aminolevulinic acid is an important amino acid in the bodies of plants and animals, a substance that is a precursor to chlorophyll in plants. In PENTAKEEP-super there are nitrogen, phosphate, potash, magnesium and micronutrients. It has been confirmed that these fertilizers and 5-aminolevulinic acid have synergism for plant growth. By using PENTAKEEP-super, photosynthesis flourishes, and water and fertilizer uptake increases, so please apply water and fertilizers adequately. Usage methods are at 0.02%(16ml/100l), the standard application rate and it can be used for foliar application or rhizosphere application. For usage, please read these instructions carefully and use correctly.

[Dilution Rates and Amount of Application]

Application method	Dilution / 100 litres water	Example of application per 1 ha		Application interval
		Water volume	PENTAKEEP-super	
Foliar application	25-50 ml	1,000 l	0.6 kg 0.5 l	1-2 weeks
Rhizosphere application	4-16 ml	6,000 l	1.2 kg 1 l	1-2 weeks

When using a liquid fertilizer injector, please apply 1 kg (0.8l) - 2 kg (1.6l) per 1 ha.

[Application Intervals]

In general, please apply at one-week intervals. Visible results can be seen within one week at the earliest and about four weeks at the latest. Once visible results can be seen, please apply once every 1-2 weeks.

[Targeted Crops]

Positive effects have been confirmed in many plants, including the following: fruit trees, vegetables, flowers, food crops, and industrial crops. Please inquire about any unclear points about the targeted crops.

Fruit vegetables	Tomato, Cucumber, Strawberry, Paprika and others	Leaf vegetables	Spinach, Cabbage, Lettuce and others
Cut flowers	Rose, Chrysanthemum, Lisianthus and others	Fruit trees	Orange, Apple, Grape and others
Potted plants	Primula, Cineraria, Benjamin and others	Others	Potato, Sugar beet, Turf grass and others

[Advice for Better Results]

1. Apply in the morning when photosynthesis of plants is active.

For foliar application, it is effective to spray in the morning when stomata are open. In applying for rhizosphere application, apply it first thing in the morning when absorption ability is highest.

2. Please apply it in the way that the plant can absorb fully.

When used for foliar application, it is absorbed close to the stomata of the leaves. Giving priority on the backside of leaves where there are many stomata, please apply to the whole plant.

3. Please give an appropriate amount of fertilizer for absorption and irrigate water so as not to allow water shortage.

When applying PENTAKEEP-super, photosynthesis becomes activated and the plants want fertilizer and water.

In most such cases, the amount of fertilizer applied and irrigation water is increased by 10 to 30 percent of the regular amount.

[Usage Warning]

- Please dilute correctly.
- Prepare only the amount needed for usage, please use soon after preparation.
- To stabilize effects even more, it is recommended to apply in single uses.
- Please avoid the combined use with alkaline materials, sulphuric compounds, and lime chemicals.
- Please combine PENTAKEEP-super with diluted agricultural chemicals and then apply. Do not mix the liquid concentrates directly with one another.
- Effectiveness decreases when combined with service water pH 8 and above.
- Dilution rates and amount of application are rough standards. Please use accordingly after initial trial. Sensitivity differs according to plant characteristics, varieties, growth stage, weather conditions, and cultivation management.

[Handling Precaution]

- Avoid contact with eyes. In case of contact, immediately flush thoroughly with running water and seek medical treatment from an eye specialist.
- Avoid contact with skin. In case of skin contact, immediately wash skin thoroughly with running water.
- This is not a drink. Please do not ingest.
- Store in a place out of the reach of children.
- Replace the container cap after use, and store out of direct sunlight and high temperatures. Specifically, please do not store in temperatures 30°C and above, or 0°C and below.

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