

SilicaPower

Technical data

Product description

SilicaPower from PlantoSys is a fertilizer with orthosilicic acid, based on a dispersion of colloidal silicon. SilicaPower stimulates the plant's natural defences and strengthens the cell walls and epidermis. Silicon also facilitates the better distribution of Ca and Mn throughout the plant and helps reduce drought stress. With 3% orthosilicic acid SilicaPower has a high concentration of silicon that is readily taken up by the plant.

SilicaPower can be applied via the A-fertilizer feeder or as a foliar spray. Following application the silicon is absorbed by the plant where it accumulates in the epidermis and is subsequently incorporated into the cell wall. This improves the plant's natural resistance, making it more difficult for fungi, such as powdery mildew, to penetrate into the plant.

Positive effects of silicon

- Strengthens the natural defense and therefore the production of substances stimulating plant vitality
- Stimulates chlorophyll production = higher light absorption efficiency = more photosynthesis
- Increases osmotic tension in the cells
- Redistributes minerals in the plant (e.g. Ca and Mn)
- Larger quantity of the CO₂ fixation enzyme Rubisco
- Stimulates root hair production

SilicaPower can be used as a leaf fertilizer or via the fertilizer feeder. It enhances the natural immunity of plants.

Composition

- Vitalized water: 97%
- Orthosilicic acid 3% (out of silicon SiO₂)
- pH = 8 - 9 (1% solution)
- Colour: light brown/yellow, semi transparent

Density

Approximately 1.03 kg / litre

Packaging units

1 litre bottle or 10 litre can

Dosage when spraying the leaves

Use 100 ml **SilicaPower** /100 litres water, with a minimum of 0,5 litre/hectare/week. So:

- 300 litres water / hectare = 0,5 litre SilicaPower
- 400 l/ha = 0,5 litre SilicaPower
- 500 l/ha = 0,5 litre SilicaPower
- 600 l/ha = 0,6 litre SilicaPower
- Etc.

Spray every 7 to 10 days, depending on temperature en growth speed.
SilicaPower may be combined with neutral and alkaline agents.

Dosage when dripping

The dosage needed for the A-fertilizer feeder depends on the LAI of the crop.

- up to LAI 1, use 0,25 litres SilicaPower/ha/week
- between LAI 1 and 3 = 0,35 litre SilicaPower/ha/week

Shake well before use!

Use

SilicaPower can be used in all crops to prevent silica shortage in soft fruit, stone and top fruit, viticulture, green house and field grown vegetables, cut flowers, pot plants, bulbs, perennials and tree nurseries. For good absorption you need an active crop and a drying period of 3 hours.

Storage

Store dry, dark and in a well ventilated place at a temperature between 5°C and 40°C. Protect against UV-radiation/sunlight. The product is not flammable.

SilicaPower can be kept at least a year in its original packaging, if kept unopened.

Additional information

Bees, bumble bees, predators, etc. are not affected.

Waste

Collect spillage. Dispose of contents/container in accordance with local, regional, national or international regulations. Clean application tools with water and dispose of empty rinsed packaging as commercial waste.

Safety

SilicaPower is not flammable. Keep out of reach of children. Do not inhale fumes. Avoid contact with skin. When swallowed, do NOT induce a vomiting reaction, but warn your general practitioner and show him/her the label.

If you have no experience with the combination of this product and crop, first conduct a trial!
As producer / distributor has no control or supervision over the correct use and application of its products, the use is at your own risk.

Transportation: Not a hazardous substance

EC-features: none

Questions or advice?

For more information please call us at +31(0)6 49 33 49 30, email to info@plantosys.nl or visit our website www.plantosys.com. We will be happy to help you!