



BIOFUNGICIDE

Clonostachys rosea strain J1446



PRESTOP®

Broad spectrum disease controlling biofungicide

Fight effectively against above ground-diseases and root or base-rot diseases

PRESTOP® contains a high concentration of mycelia and spores of *Clonostachys rosea** strain J1446, a naturally occurring soil fungus, selected for its capacity to control a range of very important crop diseases.

*previously known as *Gliocladium catenulatum*.



WETTABLE POWDER

MODES OF ACTION

Clonostachys rosea strain J1446 operates through several useful modes of action:

1 COMPETITION :
quick colonisation of root and aerial parts of the plants depriving pathogenic fungi of living space and nourishment.

2 SAPROPHYTISM:
rapid development on dead plant tissues which can seal wounds and provide an effective physical barrier protecting against the entrance of pathogenic organisms.

3 HYPERPARASITISM:
production of enzymes which cause the breakdown of cell walls of plant pathogens.

Rapidly growing mycelium of C. rosea J1446

Control *PRESTOP® WP*

Rhizoctonia hypha

C. rosea J1446 appressoria

C. rosea J1446 parasitising Rhizoctonia solani

BENEFITS

- **Against grey mould and stem cankers** caused by *Botrytis cinerea* on leafy crops, tomatoes, peppers, cucumbers, aromatic plants, ornamentals, strawberries and other soft fruit.
- **Against gummy stem blight** caused by *Didymella* sp. on cucumbers.
- **Against damping-off and root or base rot diseases** caused by *Pythium*, *Phytophthora*, *Rhizoctonia* and *Fusarium* on vegetables, salads, aromatic plants and ornamentals.

ADVANTAGES

- **Broad spectrum of use**
- **Several modes of action:** low risk of resistance
- **Persistence of action :** 3 to 4 weeks on the foliage and 4 to 6 weeks in the soil and growing media
- **Environmental profile:**
 - without toxicological classification
 - usable in organic farming and zero residue programmes

PRESTOP®

APPROVED USES

Crops under protection	Type of application	Target	Recommended dose per application	Number of application maximum for 12 months	Minimum interval between two applications in days
All Vegetables	Drip	Root diseases	200-250 g/1000 plants	6	28
	Mix with growing media		200-500 g/1000 L of substrate	2	28
	Drench		5-10g/m ²	6	28
	Post emergence	<i>Botrytis</i>	0,5%	6	21
Tomato, Peppers	Treatment after planting	Grey mold	0,5%	6	21
Cucumber	Treatment after planting	<i>Botrytis</i> <i>Didymella bryoniae</i> , <i>Stagonosporopsis cucurbitacearum</i>	0,5%	6	21
Herbs	Drip	Root diseases	200-250 g/1000 plants	6	28
	Mix with growing media		200-500g/1000L of substrate	2	28
	Drench		5-10g/m ²	6	28
Ornamentals	Drip	Root diseases	200-250 g/1000 plants	6	28
	Mix with growing media		200-500 g/1000 L of substrate	2	28
	Drench		5-10g/m ²	6	28
	Post emergence	Grey mold	0,5%	6	21

Root diseases: *Pythium* spp, *Phytophthora* spp, *Rhizoctonia* spp, *Fusarium* spp.

Grey mold: *Botryotinia fuckeliana* / *Botrytis cinerea*

Botrytis: *Botrytis* spp.

Other application conditions:

The agent is used after mixing with water. First dissolve the powder with a small quantity of water. Mix well until the obtention of an homogeneous solution. Wait 15 min, then top with water to get the targeted concentration. Adjust the amount of water to the ambient humidity.

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CHARACTERISTICS

- **ACTIVE INGREDIENT:** *Clonostachys rosea* J1446 2.10⁸ CFU*/g
**CFU: Colony Forming Unit. Unit of measure for living microorganisms able to multiply*
- **FORMULATION:** wettable powder (WP)
- **PACKAGING:** 1 kg
- **STORAGE:** 12 months in a cool and dry place below +4°C or 4 weeks at room temperature.
- **REGISTRATION N°:** 13413
- **Usable in Organic Production**

USAGE RECOMMENDATIONS

- **PRESTOP® powder is mainly used in the form of an aqueous suspension for applications:**
 - as a foliar spray.
 - by drip irrigation systems.
 - by dipping or drenching.
 - by incorporation into growing media.

The most efficient way to use PRESTOP® is preventatively. The active microorganism survives in the rhizosphere and on aerial plant parts for several weeks protecting the crop against pathogens.

- **PRESTOP® against *Botrytis* and *Didymella*:**
 - **Foliar spray:** 0.5% of spraying volume (minimum 100 L) in respect of the maximum dose rate (6 kg/ha).
 - **Spray on wounds:** 2% aqueous suspension for localized application.
 - Renew applications every **3-4 weeks**.
- **PRESTOP® against soil-borne diseases:**
 - **Soil spray (full cover application):** 3 to 5 kg/ha (depending on disease pressure).
 - **Soil spray (localized):** 3 kg/ha.
 - **Growing media incorporation:** 200 to 500 g/m³ (depending on disease pressure).
 - Renew applications every **4-6 weeks**.

COMPATIBILITY

PRESTOP® is compatible with many chemical pesticides and can be used in Integrated Pest Management (IPM) programmes.

Ask your distributor before mixing with plant protection products.

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