



IMPULSE[®]



Profile

General Information:

Impulse[®] is a systemic fungicide with protective, curative and eradicated action for the control of powdery mildew and rust in ornamentals.

The active ingredient in Impulse[®], Spiroxamine, belongs to a new class of chemicals - *spiroketalamines*.

Mode of action:

Spiroxamine is an ergosterol biosynthesis inhibiting (non-DMI) fungicide. Spiroxamine intervenes in the metabolism of the fungal pathogen and inhibits sterol biosynthesis. Sterol biosynthesis is an important metabolic pathway in growth of fungal organisms.

Performance profile

The systemic properties of Impulse® means that it acts protectively, curatively and eradically:

Protectively

Impulse® protects the plant from the fungal pathogen when applied before the organism penetrates the plant tissue.

Curatively

Impulse® controls the fungal organism after it has penetrated the plant, but before symptoms become visible on the plant (during the incubation period).

Eradicatively

Impulse® intervenes in the infection process even after the disease symptoms have become visible.

Rapid uptake by plant

The active ingredient Spiroxamine, rapidly penetrates the plant tissue and displays a good duration of action.

Ecological properties

- Impulse® has low toxicity and is environmentally friendly.
- Impulse® is safe to beneficials such as ladybirds, bees, and ground beetles and other parasitoids.

Resistance management strategy

Impulse® sprays should be alternated with fungicides having a different mode of action, such as triazoles (DMI fungicides), strobilurins, morpholines etc, for resistance management.

Crop tolerance

Impulse® is well tolerated by ornamentals when used according to the label recommendation.

Note: As the different species and varieties of ornamentals may differ in their sensitivity to chemical spray, users are advised always to check for crop compatibility by firstly treating a few plants before large scale application is undertaken.

Application recommendations for Impulse 500 EC

Crop	Disease	Application Rate	Remarks
Rose	Powdery mildew (<i>Sphaerotheca pannosa</i>)	0.75 - 1.0 Lt/Ha	Apply as an early preventive spray or at first signs of disease. Repeat at 10 - 14 day interval depending on infection. Apply 2 consecutive applications followed by other 2 fungicides with a different mode of action before re-introduction of Impulse. Apply in 800 - 1000 litres of water/ha.
Carnation	Rust (<i>Uromyces dianthi</i>)	0.75 - 1.0 Lt/Ha	

Product compatibility

Impulse 500 EC is compatible with most fungicides, insecticides and foliar fertilizers.

It is important to consult Bayer East Africa Ltd before using any of the products for tank-mix, and care should be taken to ensure that mixtures are only applied within the recommendations for both products.



Bayer CropScience

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