

Shakti Verticillium lecanii

Introduction :

SHAKTI VERTICILLIUM LECANII is a unique biological insecticide based on a selected strain of naturally-occurring entomopathogenic fungus *Verticillium lecanii* (NCIM 1312) that infects and kills mealy bugs and sucking insects like thrips, jassids , aphids, white flies and mites. *Verticillium lecanii* It is formulated as Wettable Powder with CFU count of 1×10^8 / g. SHAKTI VERTICILLIUM LECANII is registered by Indian Pesticides Regulatory Authority - Central Insecticides Board, Govt of India. SHAKTI VERTICILLIUM LECANII is approved for use in Organic agriculture.

Mode of Action :

1. **Conidial penetration** : The microscopic conidial spores of the fungus are slimy and attach to the cuticle of the insect. Hyphae from the germinating spores are produced that penetrate the insect's integument and destroy the internal contents of the insect.
2. **Enzyme production** : SHAKTI VERTICILLIUM LECANII mycelia produces toxin which have insecticidal properties. These toxins weaken the hosts immune system (of insect) and aid in eventually killing it..
3. **Growth** : Once inside, SHAKTI VERTICILLIUM LECANII replicates and consumes the insects' internal contents eventually killing it. The fungus eventually grows out of the insect's cuticle and starts sporulating. Infected insects appear as white to yellowish cottony particles. SHAKTI VERTICILLIUM LECANII infects the insect on contact and does not need to be consumed by the host to cause infection.

Method of Application :

Foliar spray : Mix SHAKTI VERTICILLIUM LECANII @ 5 g / L of water and spray for control of target pests like mealy bugs and sucking insects . The spray volume depends upon the crop canopy.

Target Diseases Mealy bugs, Thrips, Jassids, Aphids, White flies and Mites. Crops SHAKTI VERTICILLIUM LECANII is suitable for application on Papaya , Grape , Guava , Custard apple , Sapota (Chikoo) , Chillies , Cotton , Sorghum ,Cereals , Millets , Pulses, Oilseeds, Fibre Crops , Sugar Crops , Forage Crops , Plantation crops , Vegetables, Fruits, Spices , Flowers , Medicinal crops , Aromatic Crops , Orchards and Ornamentals . Shelf Life SHAKTI VERTICILLIUM LECANII is stable for a period of 12 months from the date of manufacturing.