



LECATECH® WP

LECATECH® WP is a biological insecticide used to control whiteflies.

PRODUCT SPECS

Active Agent *Lecanicillium lecanii* J27
Agent Type Insect-killing fungi

PRODUCT USES

Whiteflies

LECATECH® WP kills the insect by invading its body and releasing toxins which kill the insect.

BIOLOGY

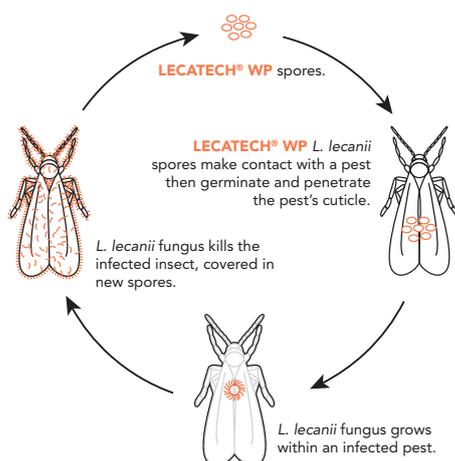
LECATECH® WP is a biological insecticide containing *Lecanicillium lecanii* J27, a naturally occurring specialised entomopathogenic fungus that is effective against whiteflies.

MODE OF ACTION

The infection process is as follows:

- › **Attachment** – Spores of *L. lecanii* attach to the insect body.
- › **Germination** – spores germinate and form an appressorium.
- › **Invasion** – the appressorium breaks the insect cuticle and enters the insect body by mechanical pressure and enzymatic action.
- › **Proliferation** – the fungi multiplies throughout the insect body, releasing toxins that destroy the insect's organs leading to death of the insect causing the 'white halo disease'.
- › **Emergence** – the fungi emerge from the insect body, sporulate and start the infection cycle upon contact with other insects.

LECATECH® WP LIFE-CYCLE AND ACTION



ADVANTAGES OF LECATECH® WP

- › High percent kill of pests.
- › Self propagates in the field.
- › Active against a wide variety of soft bodied pests and mites.
- › No resistance development.
- › Zero PHI and zero REI.
- › No phytotoxicity.
- › Safe to the environment, users and beneficial organisms.
- › Can be tank mixed with most insecticides and miticides
- › Fits in with the conventional chemical application techniques and does not require special equipment.

INTRODUCTION METHOD

LECATECH® WP is applied as a foliar spray:

- › Mix the required amount of **LECATECH® WP** with water using 2 litres for every 250g product; stir well to form a uniform suspension.
- › Add the suspension to the required volume of water in the spray tank and mix well.
- › Add the required amount of an appropriate wetter at recommended rates and mix thoroughly.
- › After mixing with water, the product should be sprayed as soon as possible; DO NOT store overnight.
- › Thorough coverage of the leaf surfaces where the insects are to be found is a must to obtain good efficacy.
- › Apply using high volume spray equipment ensuring thorough coverage.
- › Maintain a minimum Relative humidity of at least 65% for the first 8-12 hours for germination to occur.
- › Highest infection levels are achieved at temperatures of between 20 - 28°C. Best results will be achieved when applications are done late afternoon.
- › Avoid spraying between 11am and 4pm when the UV light concentration is high and the relative humidity is low, as these factors affect *L. Lecanii* spore germination.
- › Avoid fungicides at least 12 hours before and after application.

RATE SCHEDULE

	Dosage g/Ha	Interval (days)	REI & PHI
Preventative	250	14	0
Light/Medium Curative	250	7	
Heavy Curative	500	5-7	

STORAGE

Store **LECATECH® WP** in a cool dry place, away from direct sunlight. **LECATECH® WP** may be stored for up to 6 months in original unopened container maintained at 8 - 12°C.

INTEGRATED PEST MANAGEMENT (IPM)

Before the introduction of pesticides, it is important that the plant is clean of negative chemical residues. Please consult the Dudutech SIDE EFFECT GUIDE on dudutech.com for compatible chemicals.

PACKAGING

Beneficial Fungi as packed	
Quantity	Pack Size
1.0 x 10 ¹⁰ CFU per gram in an inert carrier	250g

