

LEC-TEC

Lecanicillium lecanii J27

Lecanicillium lecanii J27 kills the insect by invading its body and releasing toxins.

Description

LEC-TEC is a biological insecticide containing *Lecanicillium lecanii* J27, a naturally occurring specialised entomopathogenic fungus that is effective against whiteflies.

Introduction method

LEC-TEC is applied as a foliar spray:

- Mix the required amount of LEC-TEC 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.

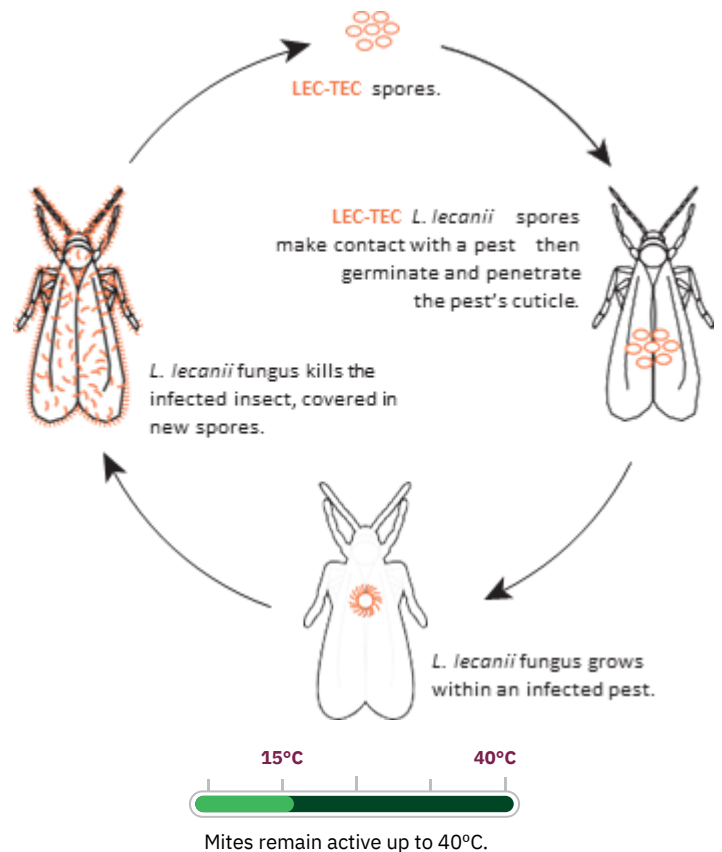
Target pests and crops

Lecanicillium lecanii J27 feed on whiteflies.

Life cycle and 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.





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Rate schedule

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

Advantages of LEC-TEC

- 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.

IPM Advice

Before the introduction of pesticides, it is important that the plant is clean of negative chemical residues. Please consult you Insectec Field Advisor for any enquire.

Packaging

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



Storage

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

Disclaimer

The success of natural enemies is affected by many factors including initial pest population, climate and chemical residues.