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SWIRSKI
ULTI-MITE

KOPPERT
BIOLOGICAL SYSTEMS



***Amblyseius swirskii* Premium Sachets - For Use Against Thrip larvae & Whitefly
Eggs - Application Instructions**

Please use immediately upon receipt

Required conditions:

- Temperature range: above 20°C
- Humidity: 70% (lower humidity will not kill the *swirskii* but will make reproduction difficult)
- Insecticides: Do not apply *swirskii* if insecticides were applied in the past 1-2 weeks

Before application:

- Prune any heavily damaged leaves
- Do not open the sachets. The sachets already contain an emergence hole

Application:

- Use all of the sachets at once and do not store
- Hang the sachets onto plant stems, or leaves, at a rate of 1-2 per plant
- Hang the sachets out of direct sunlight
- Do not use any insecticides once predators have been applied
- The sachets will release predators for 4 weeks

Next Steps:

- Observe Thrip activity during the 4 week life cycle of the sachet and ensure to replace them to continue protection

If Thrip numbers rapidly increase, switch to a curative application of loose *Amblyseius swirskii* or *Amblyseius cucumeris*



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Amblyseius cucumeris For Thrip Larvae Control - Application Instructions

Please use immediately upon receipt

Required conditions:

- Temperature range: 10-30°C
- Humidity: 70%
- Lower humidity will not kill *cucumeris* but will make reproduction more difficult
- Do not apply *cucumeris* if insecticides were applied in the past 1-2 weeks

Before application:

- Carefully rotate the bottle to evenly distribute predators in the carrier material
- Lightly mist the leaves of your plants with water before applying the predators

Application:

- Once opened, apply all of the container material. Do not store the *cucumeris*
- Sprinkle the material from above your plants
- Apply to damaged areas, or where pests are visibly present
- If applying to rockwool blocks for young plants, apply the predators in small piles of carrier material onto the rockwool base
- Do not use any insecticides once predators have been applied
- Repeat applications may be required

Next Steps:

- Observe Thrip infestation levels over the next 7-10 days
- Apply more *Amblyseius cucumeris* predators if pest levels remain high
- Consider applying *cucumeris* preventative sachets to continue Thrip protection

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Mighty Mite (*Macrocheles robustulus*) For Preventative Control Of Soil Borne Larvae (Such As Sciarid Fly Larvae) - Application Instructions

Please use immediately upon receipt

Required conditions:

- Soil temperatures must be above 15°C
- Apply in moist soil and, ideally, soil rich with organic material and of loose composition
- Do not apply Mighty Mite if insecticides have been used in the past 1-2 weeks

Before application:

- Carefully rotate the bottle to evenly distribute the predators through carrier material
- Ensure soil is moist before applying predators

Application:

- Once opened apply all of the material and do not store
- Spread material evenly on soil or pots
- Do not use any insecticides once the predators have been applied
- Repeat applications may be required for larger infestations

Next Steps:

- Observe pest levels over the next 7-10 days
- Consider applying more predators if numbers of pest larvae persist in the soil or growing media
- Alternatively, consider applying Mighty Mite in a preventative system. Apply once every 4 weeks to avoid pest build ups