



Sphinx®

Downy Mildew in Cucurbits

- Downy Mildew (*Pseudoperonospora cubensis*) in cucurbits is most severe when long periods of leaf wetness prevail. It is characterised by small, pale yellow areas on leaves which enlarge to form brown, angular spots, often delineated by the veins
- The highest risk of infection is when prolonged cool, overcast and moist conditions occur when the relative humidity during pre-dawn hours is greater than 95%, with 2 to 6 hours of leaf wetness from overnight temperatures of between 5°C and 28°C
- The optimum daytime temperature for disease proliferation is between 15°C and 25°C.

Mode of Action

GROUP **40** FUNGICIDE

SPHINX® is a suspension concentrate containing 500 g/L dimethomorph, a Group 40 fungicide. Dimethomorph is the only member of this group of fungicides registered for use in cucurbits in Australia, providing an alternative to products from other groups and a valuable Resistance Management tool for the control of Downy Mildew. Importantly, SPHINX® also controls metalaxyl resistant strains of Downy Mildew.

Dimethomorph rapidly penetrates the cuticle of the plants to be protected and is then distributed throughout the leaf. SPHINX® acts against *Pseudoperonospora cubensis* by disrupting the cell wall formation in all stages of its life cycle and also has anti-sporulation activity.

When to Use SPHINX® in Cucurbits

- SPHINX® is applied as a foliar spray and must always be used in a tank-mix combination with either mancozeb or metiram (Polyram* DF). These mixing partners assist in disease resistance management and extend the spectrum of disease control
 - When applied in preventative applications, plant tissue is protected before disease has an opportunity to affect the plant cells
 - The curative activity of dimethomorph is limited, and mancozeb and metiram are protectant fungicides only.
- SPHINX® is available in an easy to measure and pour liquid formulation in 1 L and 5 L packs.








Application Timing

When using protectant fungicides, maintaining a regular protectant spray program is important and thorough coverage is essential as fungal pathogens will penetrate unprotected plant areas.

- Spray intervals depend on the residual properties of the fungicide, plant growth, weather and overhead irrigation events. SPHINX®, together with its tank mixture partner, must be applied prior to infection taking place
- New plant tissue is not protected after application
- Apply a maximum of 2 consecutive sprays of SPHINX®, 7 to 10 days apart. The shorter interval should be used when conditions favouring the disease create a higher risk
- A maximum of 4 applications of Group 40 Fungicides (including SPHINX® or Acrobat*) per crop is permitted under CropLife Australia Fungicide Resistance Management Review Group Guidelines.

Compatibility

SPHINX® can be tank-mixed with most commonly used pesticides, however, avoid mixing with strongly alkaline or acidic materials.

SPHINX® Mixing Order		
Step 1	Fill the spray tank to at least 70% full with suitable water Commence agitation	
Step 2	Add the correct amount of any Wettable Powders (WP) or Water Dispersible Granules (WG) including mancozeb or Polyram DF	
Step 3	Ensure products are fully dispersed before proceeding	
Step 4	Add the required volume of Flowable Liquids (FL) or Suspension Concentrates (SC) including SPHINX®	
Step 5	Add the required volume of any Emulsifiable Concentrates (EC)	
Step 6	Add remainder of the water with agitation running	
Step 7	Add non-ionic wetting agent and fill the tank	
Step 8	Continue agitation during spray application.	

Always check labels of products to be used in tank mixes for manufacturer recommendation/s. Seek competent advice or perform a jar test if unsure before proceeding. The physical and chemical properties of various manufacturer's formulations may differ. Recommendations for use, handling, storage and disposal of products may change over time.

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