

Disease Prevention: Downy mildew and other diseases of impatiens



Impatiens can develop various foliar and stem diseases during production which can negatively impact plant quality and sales. Disease prevention begins with appropriate cultural practices during production. Inspect incoming plant material upon arrival for any signs of disease problems. Maintain moderate humidity, provide good air movement and irrigate early in the day to avoid foliage wetness for an extended time. This can help reduce the incidence of foliar diseases. Remove any remaining plants from the production area after the main crop has been shipped and do not allow volunteer plants to grow in or around the production area. These plants may harbor problems that can affect the next impatiens crop.

Syngenta has developed the following disease control program based on the experience of researchers in the United States as well as in Europe. This rotational program is designed to protect impatiens from fungal diseases that can impact production, including downy mildew. When pressure from downy mildew is high and environmental conditions are conducive to disease development, the suggested optional treatments should be utilized. The addition of a mancozeb product can be included with the suggested spray treatments as plant tolerance and production schedules allow for additional protection.

Crop	Week (post-transplant)	Application	FRAC #	Fungicide / AI (example)	Target Diseases
4 inch pot or smaller	1	Recommended treatment (drench)	4+43	Subdue MAXX® + Adorn®	Pythium, Phytophthora, Downy Mildew
	2	Optional treatment (spray)	M	Mancozeb	Downy Mildew, Leafspots, Botrytis
	3	Recommended treatment (spray)	40+M	Micora™ Mancozeb (optional)	Downy Mildew Leafspots, Botrytis
	4	Optional treatment (spray)	11+M	Heritage® Mancozeb (optional)	Downy Mildew, Leafspots, Botrytis
	5	Recommended treatment (spray or drench)	33	Potassium phosphite	Downy Mildew, *Pythium, Phytophthora
	6	Optional treatment (spray)	11	Heritage® Mancozeb (optional)	Downy Mildew Leafspots, Botrytis
6 inch pot	7	Recommended treatment (spray)	40	Micora™ Mancozeb (optional)	Downy Mildew
	8	Optional treatment (spray)	11	Heritage® Mancozeb (optional)	Downy Mildew Leafspots, Botrytis
	9 (final week)	Recommended treatment (drench)	4+33 or 4+43	Subdue MAXX® + Potassium phosphite or Subdue MAXX® + Adorn®	Downy Mildew, *Pythium, Phytophthora
Larger containers	9	Recommended treatment (spray)	40	Micora™	Downy Mildew
	10	Optional treatment (spray)	11 or 21	Heritage® or Segway™	Downy Mildew, Leafspots, Botrytis
	11 (final week)	Recommended treatment (drench)	4+33 or 4+43	Subdue MAXX® + Potassium phosphite or Subdue MAXX® + Adorn®	Downy Mildew, *Pythium, Phytophthora

* additional diseases controlled with a drench application

For questions or additional help regarding disease or insect control or other aspects of plant culture, please contact our Technical Services team at flowers.tech.help@syngenta.com

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