



Spring Ornamentals

BioWorks delivers a full line of biological solutions to control pests, prevent disease and improve plant health. BioWorks products help you grow all season and produce the highest quality spring ornamentals.

	PEST/DEFICIENCY	CROP STAGE		
		PROPAGATION SEEDS, CUTTINGS	GROWING ON	FINISHING
DISEASES	Soilborne Diseases	RootShield PLUS ⁺ WP, RootShield PLUS ⁺ G	RootShield PLUS ⁺ WP	
	Powdery Mildew, Downy Mildew	PERpose Plus, CEASE, MilStop SP	MilStop SP + CEASE, PERpose Plus	
	Fungal Leaf Spot		CEASE + MilStop SP, PERpose Plus	
	Botrytis	BotryStop, PERpose Plus, CEASE, MilStop SP	BotryStop, MilStop SP + CEASE	
	Bacterial Leaf Spot	CEASE, PERpose Plus		
INSECTS / MITES	Aphids, Whiteflies		Molt-X, SuffOil-X	
	Thrips			
	Fungus Gnats, Shore Flies	NemaShield	NemaShield, Molt-X	
	Mites		SuffOil-X	
	Lepidopterans		Molt-X	
	Mealybugs		SuffOil-X, Molt-X	
NUTRITION	Efficient nutrient use and stress reduction	ON-Gard		
	Base fertilizer	Verdanta EcoVita, N-Vita		
	Calcium (Ca) deficiency	ON-Gard CALCIUM		

DISEASES

PRODUCT	REI, PHI	ORGANIC INPUT	PEST/DEFICIENCY	RECOMMENDED RATE	TYPE OF APPLICATION
RootShield® PLUS+ WP	4-hour, 0-day	OMRI	Damping Off, Pythium, Fusarium, Phytophthora	Drench: 4-8 oz/100 gal Dip (unrooted cuttings): 1.5 oz/5 gal	Drench or Dip at seeding, sticking or transplant. Reapply drench application at 8-10 weeks.
RootShield® PLUS+ G	4-hour, 0-day	OMRI		1.5-3 lb/cu yd	Incorporate in potting media.
MilStop® SP	1-hour, 0-day	OMRI	Powdery Mildew, Downy Mildew, Botrytis, Fungal Leaf Spot	1.25-3 lb/100 gal	Foliar application every 7-14 days. Tank mix rates: CEASE 4-6qt/100gal + MilStop SP 1.25-3 lb/100 gal.
CEASE®	4-hour, 0-day	OMRI	Bacterial and Fungal Leaf Spot, Powdery Mildew, Downy Mildew, Botrytis	4-6 qt/100 gal	Foliar application every 3-7 days. Safe for use with young seedlings.
PERpose Plus®	0-1-hour, 0-day	OMRI		1/3-1 fl oz/gal Mist: 1:1000-1:5000	1/3 fl oz/gal preventative application weekly; 1 fl oz/gal curative application. Mist in propagation: Apply 1:1000 for first week; 1:5000 for remainder of propagation.
BotryStop®	4-hour, 0-day	OMRI	Botrytis	2-4 lb/100 gal	Foliar application every 7-10 days.

INSECTS / MITES

Molt-X®	4-hour, 0-day	OMRI	Aphids, Whiteflies, Thrips, Mealybugs, Lepidopterans	8-10 fl oz/100 gal	For foliar application.
SuffOil-X®	4-hour, 0-day	OMRI	Mites, Aphids, Thrips, Whiteflies, Leafminers, Mealybugs, Scales	1-2 gal/100 gal	Foliar application every 7 days. Suppresses Powdery Mildew, Rust. Tank mix partner for leafminer control. Use 1% when in bloom or on sensitive crops.
NemaShield®	N/A	N/A	Fungus Gnats, Shore Flies	100 million/1100-3400 ft ²	Apply as a drench to the substrate as needed.
Molt-X®	4-hour, 0-day	OMRI		8 fl oz/100 gal	Apply as a drench.

NUTRITION

ON-Gard® (5-0-0)	N/A	OMRI	Nutrition supplement and stress reduction	Foliar Spray/Drench Dip: 1 qt/100 gal	Pre-plant dip or drench at planting. Re-apply as a drench at 2 week intervals. Low Volume (Fogging): 6.4-11.2 fl oz/ 3 L water.
Verdanta® EcoVita® (7-5-10)		OMRI	Base fertilization	3.5-8.5 lb/cu yd soil mix	Incorporate in potting media.
Verdanta® N-Vita® (9-4-3)		OMRI			
ON-Gard® CALCIUM (1-0-0 + 5% Ca)		OMRI	Calcium (Ca) deficiency	8-16 fl oz/100 gal	Apply as a foliar spray at 2 week intervals, as needed.



Please refer to product labels for complete application instructions. Always read and follow label directions.

©2022 BioWorks, Inc. The following are registered trademarks of BioWorks, Inc.: RootShield, CEASE, MilStop SP, PERpose Plus, BotryStop, Molt-X, NemaShield, SuffOil-X, ON-Gard, Verdanta EcoVita, Verdanta N-Vita, and Verdanta.