



We create chemistry

BASF Foundational Fungicide Program

Specific Target Diseases

Production Ornamentals

8-10 Weeks of Protection

Nursery and greenhouse growers rely on BASF to provide innovative solutions for their most pressing challenges. To protect crops throughout the plant production cycle, the BASF Foundational Fungicide Programs recommend products that control key diseases and boost plant health. From propagation to shipping, **Intrinsic**® brand fungicides from BASF deliver superior disease and stress protection under a well-planned program for resistance management. The result is healthy, high-quality plants that shine on retail shelves.

BASF Foundational Fungicide Program

Foliar Diseases

Rotate products per recommended guidelines for superior preventive and early curative control of the pathogens in these charts. **Intrinsic**® brand fungicides from BASF deliver both exceptional disease control and plant health.

Production Ornamentals 8-10 Weeks of Protection

| Target | Rotation 1 | Rotation 2 | Rotation 3 | Rotation 4 |
|---|--|--|---|---|
| Anthracnose | | | | |
| Preventive | Pageant Intrinsic ® brand fungicide 18 oz | Phyton 27 ³ , copper or mancozeb | Trinity ® fungicide 8-12 fl oz | Pageant Intrinsic brand fungicide 18 oz |
| Early curative | Phyton 27, copper or mancozeb | Pageant Intrinsic brand fungicide 18 oz + mancozeb | Spectro | Pageant Intrinsic brand fungicide 18 oz |
| Shipping protection <i>1-3 weeks before shipping</i> | Spectro or Phyton 27 ³ | Pageant Intrinsic brand fungicide 12 oz | | |
| Downy mildew | | | | |
| Preventive | Stature ® SC fungicide 6.12 fl oz | Segway O or Alette | Stature SC fungicide 6.12 fl oz | Pageant Intrinsic brand fungicide 14 oz |
| Early curative | Segway O + mancozeb | Mancozeb + Alette | Stature SC fungicide 12.25 fl oz | |
| Shipping protection <i>1-3 weeks before shipping</i> | Stature SC fungicide 12.25 fl oz | Pageant Intrinsic brand fungicide 14 oz | | |
| Leaf spot complex¹ | | | | |
| Preventive | Chipco 26019, Cleary's 3336 or OHP 6672 | Pageant Intrinsic brand fungicide 8 oz | Medallion | Pageant Intrinsic brand fungicide 8 oz |
| Early curative | Daconil or mancozeb | Medallion or Chipco 26019 + Daconil or mancozeb | Pageant Intrinsic brand fungicide 12 oz + mancozeb | Pageant Intrinsic brand fungicide 8-12 oz |
| Shipping protection <i>1-3 weeks before shipping</i> | Chipco 26019 (+ Daconil) | Pageant Intrinsic brand fungicide 8 oz | | |
| Powdery mildew | | | | |
| Preventive ² | Pageant Intrinsic brand fungicide 8-12 oz | Palladium | Trinity ® fungicide 6-12 fl oz or Terraguard | Pageant Intrinsic brand fungicide 8-12 oz |
| Early curative ² | Terraguard | Pageant Intrinsic brand fungicide 12 oz + mancozeb | Palladium + mancozeb | Pageant Intrinsic brand fungicide 12 oz |
| Shipping protection <i>1-3 weeks before shipping</i> | Terraguard or Palladium | Pageant Intrinsic brand fungicide 12 oz | | |
| Rots and Blights, Botrytis | | | | |
| Preventive | Pageant Intrinsic brand fungicide 8-12 oz | Medallion or Chipco 26019 + Daconil | Palladium | Pageant Intrinsic brand fungicide 12-14 oz |
| Early curative | Chipco 26019 + Daconil | Pageant Intrinsic brand fungicide 12-14 oz | Palladium + Daconil | Pageant Intrinsic brand fungicide 12-14 oz |
| Shipping protection <i>1-3 weeks before shipping</i> | Chipco 26019 or Medallion or Palladium | Pageant Intrinsic brand fungicide 12-14 oz | | |
| Rust | | | | |
| Preventive | Pageant Intrinsic brand fungicide 6-12 oz | Junction, Camelot, or Phyton 27 | Terraguard | Pageant Intrinsic brand fungicide 12 oz |
| Early curative | Mancozeb + Terraguard | Pageant Intrinsic brand fungicide 12-18 oz + mancozeb | Junction, Camelot, or Phyton 27 | Pageant Intrinsic brand fungicide 12-18 oz |
| Shipping protection <i>1-3 weeks before shipping</i> | Terraguard + Phyton 27 ³ | Pageant Intrinsic brand fungicide 12 oz | | |
| Bacterial diseases³ | | | | |
| Preventive ⁴ | Junction, Camelot or Phyton 27 | Cease or Rhapsody (biological) | Junction, Camelot or Phyton 27 | Cease or Rhapsody (biological) |
| Early curative ⁴ | Junction | Camelot or Phyton 27 | | |

Always read and follow label directions.

BASF Foundational Fungicide Program

Crown, Root and Soilborne Diseases

Production Ornamentals 8-10 Weeks of Protection

| Target | Rotation 1 | Rotation 2 | Rotation 3 | Rotation 4 |
|--|---|---|--|---|
| Crown and Basal Rots, Soilborne⁵ | | | | |
| Preventive | Pageant® Intrinsic® brand fungicide 12 oz or Empress® Intrinsic brand fungicide 3-6 fl oz | Trinity® fungicide 8-12 fl oz or Medallion | Cleary's 3336, OHP 6672 | Pageant Intrinsic brand fungicide 12 oz or Empress Intrinsic brand fungicide 3-6 fl oz |
| Early curative | Terraguard or Medallion | Cleary's 3336, OHP 6672 | Pageant Intrinsic brand fungicide 12 oz or Empress Intrinsic brand fungicide 3-6 fl oz | Terraguard or Medallion |
| Shipping protection 1-3 weeks before shipping | Terraguard or Medallion | Pageant Intrinsic brand fungicide 12 oz | | |
| Phytophthora⁶ | | | | |
| Preventive | Orvego® fungicide 11-14 fl oz | Pageant Intrinsic brand fungicide 12-18 oz or Empress Intrinsic brand fungicide 3-6 fl oz | Orvego fungicide 11-14 fl oz | Pageant Intrinsic brand fungicide 12-18 oz or Empress Intrinsic brand fungicide 3-6 fl oz |
| Early curative | Aliette or Banol | Orvego fungicide 14 fl oz | Aliette or Banol | Pageant Intrinsic brand fungicide 12-18 oz or Empress Intrinsic brand fungicide 3-6 fl oz |
| Shipping protection 1-3 weeks before shipping | Orvego fungicide 14 fl oz | Pageant Intrinsic brand fungicide 12 oz | | |
| Pythium⁶ | | | | |
| Preventive | Segway O | Empress Intrinsic brand fungicide 3-6 fl oz | Segway O | Terrazole or Truban, Banrot or Banol |
| Early curative | Terrazole or Truban, Banrot or Banol | Segway O | Empress Intrinsic brand fungicide 3-6 fl oz | Segway O |
| Shipping protection 1-3 weeks before shipping | Segway O | Empress Intrinsic brand fungicide 3-6 fl oz | | |
| Thielaviopsis | | | | |
| Preventive and early curative | Orkestra™ Intrinsic brand fungicide 8-10 fl oz Control of <i>Thielaviopsis</i> spp. is very difficult and is dependent on cultural practices with soil pH and watering management. Orkestra Intrinsic brand fungicide is registered as 'suppression' of <i>Thielaviopsis</i> . | Cleary's 3336, OHP 6672 or Terraguard | Orkestra Intrinsic brand fungicide 8-10 fl oz | |

- All product rates shown are per 100 gallons.
- The products in these rotations are translaminar and/or systemic and have 7-14 days residual activity, except contact products like mancozeb. With severe infections and early curative applications, tank mix mancozeb with the recommended fungicide and shorten the interval to 7 days, then apply the second rotation recommendation.
- Refer to product labels and recommendations for additional instructions.
- Additional sprays may be necessary depending on disease spectrum. Rotate chemistries for best program performance.

¹ Leaf spots are numerous and some are controlled at much lower rates of **Pageant Intrinsic** brand fungicide, from 4-8 oz/100 gal up to 8-12 oz/100 gal. Consult labels when targeting your specific leaf spots.

² **Ultra-Pure® Oil** horticultural insecticide, miticide and fungicide is labeled for powdery mildew and can be used in production conditions where humidity is below 80%. **Ultra-Pure Oil** horticultural insecticide, miticide and fungicide has contact activity on powdery mildew and shines leaves prior to shipping.

³ Use of Camelot, Junction, mancozeb or Phytan 27 prior to shipping may result in residues. Check labels and test under growing conditions to determine acceptability and plant safety. Consult the Phytan 27 label prior to application to confirm plant safety for crop and conditions at time of application. Other bacterial products that are pathogen-specific include Taegro or Cease/Rhapsody/Serenade. Test these products on crop under growing conditions to confirm plant safety prior to wide-scale use.

⁴ Consider **Pageant Intrinsic** brand fungicide in these rotations to protect plants from fungal diseases that may occur within the same production timing as bacterial infections.

⁵ Check product labels for specific pathogens controlled. Does not include *Pythium* and *Phytophthora* spp. unless specifically noted.

⁶ Includes *Pythium* and *Phytophthora* spp. but it is product specific. Check labels for specific pathogen to be controlled.

Dilution Tables*

Pageant® Intrinsic® brand fungicide (1.0 ounce = 28.35 gram)

| Use Rate (oz product) / 100 gal | Spray Volume Rate (g) — Pageant Intrinsic brand fungicide | | | |
|------------------------------------|---|----------|----------|---------|
| | / 100 gal | / 50 gal | / 10 gal | / 2 gal |
| 6 oz | 170 g | 85 g | 17 g | 3 g |
| 8 oz | 227 g | 114 g | 23 g | 5 g |
| 12 oz | 341 g | 171 g | 34 g | 7 g |
| 16 oz | 454 g | 227 g | 46 g | 9 g |

Empress® Intrinsic brand fungicide (29.57 mL = 1.0 fl ounce)

| Use Rate (fl oz product) / 100 gal | Spray Volume Rate (mL) — Empress Intrinsic brand fungicide | | | |
|---------------------------------------|--|----------|----------|---------|
| | / 100 gal | / 50 gal | / 10 gal | / 2 gal |
| 2 fl oz | 59 mL | 30 mL | 6 mL | 1 mL |
| 3 fl oz | 89 mL | 44 mL | 9 mL | 2 mL |
| 4 fl oz | 118 mL | 59 mL | 12 mL | 2.4 mL |
| 6 fl oz | 177 mL | 89 mL | 18 mL | 4 mL |

* Rates are rounded to nearest whole number.

Always read and follow label directions.

Non-BASF products are included in this guide to provide a rotation of products with known efficacy, good plant safety and different modes of action. Always evaluate products that are new to your operation for safety on the plant species and cultivars you grow, and under your specific growing conditions prior to large-scale application.

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