



2020 Easter Lily Production Schedule

RootShield®

This year Easter is on April 12. The date allows for adequate time to complete all the necessary steps without cutting corners. Below are schedules for RootShield treatments for your bulbs that will protect the stem root system for optimal plant growth and development. For years, growers have had excellent success protecting their Easter lilies from *Pythium*, *Rhizoctonia* and *Thielaviopsis*. RootShield *PLUS*⁺ provides added control of *Phytophthora* Root Rot and more complete suppression of *Fusarium* diseases with its dual active ingredients. *The result? A robust basal root system and healthier plants.*



*Left: Untreated bulb – Rhizoctonia damage
Right: Treated with RootShield – healthy roots, better growth, cleaner bulb*

POT COOLED

- **Mid-October/Early November**

- Option 1:
 - Cool bulbs at 40° – 45 °F for 6 weeks to satisfy the vernalization requirement.
 - Dust or dip bulbs with RootShield WP or RootShield *PLUS*⁺ WP before planting.
 - Dip: 8oz/20 gallons
 - Dust: ½ – 1 lb/100 lb of bulbs
- Option 2:
 - Pot up bulbs in media with RootShield Granules at 1.25 lb/cu yd or RootShield *PLUS*⁺ Granules incorporated at 2.0 lb/cu yd.
- Option 3:
 - Drench with RootShield WP at 4 oz/100 gal or RootShield *PLUS*⁺ WP at 6 oz/100 gal after planting.
 - Allow bulbs to grow at 60° – 62 °F for up to 3 weeks for rooting before vernalization. Then cool at 40° – 45 °F for 6 weeks.

- **Mid-Late December**

- Begin forcing lilies in greenhouses no later than 14 weeks before Easter (by January 5, 2020).
- Pull from the cooler and drench with 4 oz/100gal of RootShield WP or 6 oz/100 gal RootShield *PLUS*⁺ WP if not already treated.

- **Early February**

- To continue protection, re-treat with a drench of RootShield WP at 2 oz/100 gal or RootShield *PLUS*⁺ WP at 6 oz/100 gal.

- **Late February**

- Flower buds should be visible on most plants 6 weeks ahead (March 1, 2020) to be ready for Easter.



CASE COOLED

- **December**
 - Option 1:
 - Dust or dip bulbs with RootShield WP or RootShield *PLUS*⁺ WP before planting.
 - Dip: 8 oz/20 gal
 - Dust: ½-1 lb/100 lbs of bulbs
 - Option 2:
 - Pot up bulbs in media with RootShield Granules at 1.25 lb/cu yd or RootShield *PLUS*⁺ Granules incorporated 2.0 lb/cu yd.
 - Option 3:
 - Drench with RootShield WP at 2 oz/100 gal or RootShield *PLUS*⁺ WP at 6 oz/100 gal after planting.
 - Begin forcing lilies in greenhouses no later than 17 weeks before Easter (by December 15, 2019)
- **Early February**
 - To continue protection, re-treat with a drench of RootShield WP at 4 oz/100 gal or RootShield *PLUS*⁺ WP at 6 oz/100 gal.
- **Late February**
 - Flower buds should be visible on most plants 6 weeks ahead (March 1, 2020) to be ready for Easter.



Additional Notes

- **Soil Temperatures**
 - Storage conditions for the cooling period (vernalization) will not harm the active fungal ingredients in RootShield (*Trichoderma harzianum* strain T-22), or in RootShield *PLUS*⁺ (T-22 plus *Trichoderma virens* strain G-41).
- **Water and leaching**
 - Heavy watering increases the risk of root disease problems and should be avoided.
 - Watering will not leach RootShield away from the crop's root zone.
 - RootShield will grow on the roots as it expands through the growing media for up to 3 months.

Refer to product labels for complete application details. Additional technical information is available on our website (bioworksinc.com) or from your BioWorks technical sales representative. RootShield® is a registered trademark of BioWorks, Inc. Always read and follow label directions.