



BioWorks®
How You Grow Matters™



Benefits of Multiple Applications

One application of RootShield® Granules/PlantShield® HC provides excellent prolonged protection from root diseases. Additional research and grower experiences have shown that under some conditions, a second application further enhances and prolongs disease protection and allows for enhanced plant health and development on greenhouse and nursery crops. Additional applications have been found to be beneficial under the following conditions (a second application can be made at half-rate):

- 1) **“Stepping up” of a previously RootShield-treated crop to larger container size:** Where RootShield Granules are incorporated into the soil media, growers are finding that crop health is enhanced, and production time further decreased when treated seedlings are transplanted into soil mixes containing another dose of RootShield.
- 2) **Crop coming out of a dormant period:** When a RootShield/PlantShield HC-treated crop undergoes a dormant period (cool, heat, dry, etc.) which slows or stops root growth, a second application should be made to ensure effective colonization levels on the root.
- 3) **Extended periods of plant stress or other factors:** The following situations may decrease the “defensive” barrier around the roots. A second application will fortify this barrier.
 - a. Flooding or waterlogged conditions for extended periods on perennials
 - b. Excessive over-watering on bedding/greenhouse crops
 - c. Excessive root damage through chemical/fertilizer or mechanical injury
 - d. Use of a non-compatible fungicide on a RootShield/PlantShield HC-treated crop.
Reapplication should occur 7-10 days after non-compatible chemical fungicide.
- 4) **Protecting new root growth following earlier root disease damage:** Where root diseases are a problem, growers are successfully controlling disease(s) using a curative, compatible chemical followed with PlantShield HC a few days later. RootShield/PlantShield HC will protect the new root growth.
- 5) **Sub-irrigation:** A second application of RootShield/PlantShield HC, 8-10 weeks later, will help to secure an adequate “defensive” barrier around the roots.
- 6) **To ensure prolonged crop quality after sale:** Treat crop with RootShield/PlantShield HC several days prior to shipping or sale.
- 7) **In all instances, BioWorks recommends an additional application** within 10-12 weeks from previous application.

To find out more about the BioWorks family of products, please contact us at **800-877-9443** or visit www.bioworksinc.com. © 2008 BioWorks, Inc.

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