Spring Dead Spot Solutions

Spring dead spot is the most destructive bermudagrass disease and is becoming more common in zoysiagrass. Although symptoms appear in the spring, disease activity begins in the fall when soil temperatures drop below 70°F. The pathogen causes rotting of roots, rhizomes and stolons, which increases the turf’s susceptibility to winter injury. Preventive fall fungicide applications, prior to dormancy, are recommended to protect the turf from pathogen attack and ensure acceptable turf quality in the spring.

SYMPTOMS AND TURF INJURY

When turf resumes growth in spring after winter dormancy, spots, patches and rings of affected turf appear dormant, but are actually completely dead. The spring dead spot pathogen is most active in thatch and soil, and it causes roots, rhizomes and stolons from affected areas to be sparse and appear black and rotten. The dead turf will eventually break down and leave sunken depressions that severely affect playability, aesthetics and athlete safety. Recovery from spring dead spot damage is very slow, and in severe cases it can take the entire growing season.
INNOVATIVE CHOICES FOR SPRING DEAD SPOT CONTROL

Syngenta is proud to offer a portfolio of products that can be used as part of an agronomic approach to control spring dead spot on fairways, tees and greens. The best option for spring dead spot control may vary based on geography, grass type and traditional disease pressure.

**Posterity®** fungicide is the most-active SDHI against the spring dead spot pathogen. It delivers consistent results on greens, tees and fairways with no growth regulation. It can also lead to quicker spring green-up and improved turf quality. Additionally, Posterity applications targeting spring dead spot have been proven to provide effective dollar spot control through the following spring.

**Headway®** fungicide offers excellent spring dead spot control as well as broad-spectrum control of take-all root rot and leaf spot, plus improved winter turf quality. If large patch is a concern on your course, Headway or Velista® fungicides are the best options for simultaneous spring dead spot and large patch control.

**Velista** fungicide provides highly effective spring dead spot control and has been shown to enhance spring green-up. When managing product use limits, consider Posterity for consistent spring dead spot control and Velista as the foundation to your fairy ring control strategy. For example, in ultradwarf bermudagrass greens, Velista is recommended in the spring and summer for fairy ring prevention, followed by Posterity + Headway (14 fl. oz. + 65 fl. oz./A) for control of spring dead spot and take-all root rot.

### APPLICATION RATES FOR FAIRWAYS (PER ACRE)

- **Posterity** – 7-14 fl. oz.
- **Headway** – 130 fl. oz.
- **Velista** – 21.8-30.5 oz.

### APPLICATION RATES FOR GREENS (PER 1,000 FT.²)

- **Posterity** – 0.16-0.32 fl. oz.
- **Headway** – 3 fl. oz.
- **Velista** – 0.5-0.7 oz.

### USE RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Fungicide</th>
<th>Watering-in</th>
<th># of Apps</th>
<th>Interval (Days)</th>
<th>Timing</th>
<th>Other Key Diseases Controlled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posterity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dollar spot, Fairy ring</td>
</tr>
<tr>
<td>Velista</td>
<td>Water-in immediately with 0.15” of irrigation.</td>
<td>2</td>
<td>28</td>
<td>Initiate 6-8 weeks before dormancy so the active ingredient can be absorbed and translocated.</td>
<td>Large patch, Fairy ring, <em>Rhizoctonia zeae</em></td>
</tr>
<tr>
<td>Headway</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Take-all root rot, Large patch, Leaf spot, <em>Pythium</em> blight</td>
</tr>
</tbody>
</table>

Always consult the product label for complete use and application information.

Notes: In cases of severe spring dead spot damage, applications can be made using the higher recommended rate for the first few years before returning to the lower rate after the disease is better controlled. Curative applications made in the spring when symptoms are evident generally have little effect on the disease.

Find specific agronomic recommendations for enhanced control of spring dead spot for your region at [GreenCastOnline.com/Programs](http://GreenCastOnline.com/Programs).
ROBUST AND CONSISTENT CONTROL

THE POWER OF POSTERITY

SPRING DEAD SPOT SEVERITY (%)

TURF QUALITY (1-9; 6=ACCEPTABLE)

Consistent Control = Optimal Spring Quality


SPRING DEAD SPOT CONTROL ON HYBRID BERMUDAGRASS ROUGHS

Source: Syngenta Internal Trial, Greenville, SC, 2016-2017
Performance assessments are based upon results or analysis of public information, field observations and/or internal Syngenta evaluations. Trials reflect treatment rates commonly recommended in the marketplace. Photos are either the property of Syngenta or used under agreement.

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To learn more about spring dead spot solutions from Syngenta, visit GreenCastOnline.com

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