



Spring Dead Spot

Cultural and Chemical Management

Symptoms of spring dead spot first appear in the spring, when bermudagrass resumes growth from its normal winter dormancy. As the turf 'greens-up,' circular patches or rings of turf appear to remain dormant, and eventually collapse to the ground and die

Most of the pathogen activity is thought to occur in the fall, winter, and spring prior to the onset of disease symptoms.

Cultural and Chemical management must begin in the early Fall.



Circular, Sunken depressions



Significant reduction in root depth



Fully Developed

Management Strategies

Cultural

- Avoid late season, high Nitrogen applications
- Reduce soil pH
- Improve drainage
- Improve plant cold temperature hardiness
- Potassium for natural disease tolerance

Chemical

- Fall applications of specific fungicides and application timing proven to target Spring Dead Spot



Spring Dead Spot Chemical Management Options

Vereens Turf Products has vast experience with numerous chemical control options.

The following are our Fall 2022 recommended programs:



Spring Dead Spot Assurance



Bermudagrass Putting Greens

Rates are per 1000 sq. ft.

| | |
|---------------------|----------------------------------|
| 1 st App | Briskway 1.2 fl. oz |
| 2 nd App | Prosperity Forte 0.84 fl. oz. |
| 3 rd App | Prosperity Forte 0.84 fl. oz. |
| 4 th App | Headway 1.5 fl. oz. |

- Make first application when 3-day average soil temperatures decline below 80 degrees.
- Make subsequent applications on a 28-day interval
- Follow all applications immediately with at least 0.15" of irrigation

Program Cost:

\$1280 / acre

Greens/Tees/Fairways

Rates are per 1000 sq. ft.

| | |
|-------------------|---------------------|
| 1 Application | |
| 3.2 fl. oz. | \$630/acre |
| Split Application | |
| 0.5 to 1.6 fl. oz | \$315 to \$630/acre |

Apply as a preventative treatment either as a single treatment or two treatments beginning one month prior to dormancy to southern-type turf grasses, or when soil temperatures have declined to 70°F

Use lower rates where damage to turf from spring dead spot is less noticeable and/or more tolerable (i.e. on higher cut turf such as tees and fairways). Use higher rates where damage to turf from spring dead spot is not tolerable (i.e. greens).



Spring Dead Spot + Take-all Root Rot Assurance

Spring dead spot and take-all root rot are among the most damaging diseases of bermudagrass putting greens throughout the transition zone. These diseases attack during the fall and spring when bermudagrass is growing slowly, with the potential to cause long-term reductions in playability. Both diseases begin to damage roots in the late summer to fall, so this is the key time to begin a preventative fungicide program.

- Take-all root rot activity begins in mid- to late-summer when soil temperatures are consistently below 80°F.
- Spring dead spot activity begins in late summer to fall when soil temperatures drop to 70°F or less.

With proper application timing and the best rotation of products, take-all root rot and spring dead spot can be managed very effectively as part of a program approach. Syngenta has developed this recommended program through years of research with the leading universities in the transition zone.

Preventive late-summer to fall fungicide applications, prior to dormancy, are recommended to protect the turf from pathogen attack and ensure acceptable turf quality in the spring.

SPRING DEAD SPOT CONTROL IN 'CHAMPION' BERMUDAGRASS

Jim Kerns, Ph.D.
North Carolina State University,
Raleigh NC



Posterity® Forte
0.84 fl oz/1,000 ft²



Posterity + Headway®
0.32 + 1.5 fl oz/1,000 ft²



Untreated

All fungicide treatments applied on Oct 17 and Nov 21, 2019. Photos taken on May 26, 2020

Introducing the Spring Dead Spot + Take-all Root Rot Performance Assurance for Bermudagrass Putting Greens in the Transition Zone

| Application | All rates are per 1,000 ft ² | For More Information, visit: |
|-------------|---|--|
| 1 | Briskway® (1.2 fl oz) | GreenCastOnline.com/Briskway |
| 2 | Posterity Forte (0.84) | GreenCastOnline.com/PosterityForte |
| 3 | Posterity Forte (0.84) | |
| 4 | Headway (1.5 fl oz) | GreenCastOnline.com/Headway |

SPRING DEAD SPOT

Scan the Code for more information including:

- Disease ID photos
- Symptoms
- Conditions favoring disease
- and more



Management Tips:

- Avoid high amounts of late-summer or fall applications of nitrogen fertilizers. Modest amounts of nitrogen (i.e., < 0.75 lb N/1,000 ft²) in late summer do not appear to enhance the disease.
- It is very important to control competing weeds in affected turf to enhance recovery of patches.
- Improve drainage and reduce thatch.

Application Notes:

- **Make first application** in late summer/early fall **when 3-day average soil temperature declines below 80°F** (typically Aug-Sept).
- Make subsequent applications on a **28-day interval** in the sequence provided above.
- All applications must be watered-in immediately with at least 0.15" of irrigation.

This program of applications is targeted to prevent take-all root rot, spring dead spot. This program also has been shown to improve the winter quality and spring green-up of bermudagrass putting greens.



Scan the Code

to sign up for soil temperature alerts for each of these destructive diseases or visit:

GreenCastOnline.com/AgronomicAlerts

Prevent Spring Dead Spot + Take-all Root Rot with a Program Approach

- Follow the management tips above and the prescribed solution with application timing & product use rates recommended for effective control on bermudagrass greens in AL, AR, GA, MS, NC, OK, SC, TN, TX, VA.
- **Follow Syngenta soil temperature alerts** and initiate applications when 3-day average soil temperature declines below 80°F. Make sequential applications on a 28-day interval.
- All applications must be watered-in immediately with at least 0.15" of irrigation.
- If breakthrough occurs, it is at the Syngenta Territory Managers discretion as to what product to provide for rescue treatment and when or if spot treatment or broadcast treatment is required. Breakthrough is defined as appearance of spring dead spot or take-all root rot symptoms (confirmed by samples submitted to a diagnostic lab to confirm spring dead spot or take-all root rot) to levels that negatively impact the uniformity and playability of putting surfaces.

Claims must be completed by May 1, 2023 with a territory manager.

- The Assurance is limited to providing product for up to two recovery applications for the acres originally treated.



Kabuto® Fungicide SC

Excellent control of Spring dead spot and dollar spot



Kabuto® Fungicide SC is a liquid formulation featuring isofetamid proven to provide excellent control of Spring dead spot, as well as preventative and curative control of dollar spot.

It inhibits all stages of development in the fungal lifecycle.

Kabuto® is labeled for use on Golf courses, Residential lawns, Commercial/industrial lawns, Parks and school grounds.

| Rate/1000 | Rate/Acre | Cost/Gallon | Cost/Acre |
|---------------|-------------|-------------|-------------|
| 3.2 oz | 140 oz | \$576.45 | \$630 |
| 0.5 to 1.6 oz | 22 to 70 oz | \$576.45 | \$315-\$630 |

Apply as a preventative treatment either as a single treatment or two treatments beginning one month prior to dormancy to southern-type turf grasses, or when soil temperatures have declined to 70°F

Use lower rates where damage to turf from spring dead spot is less noticeable and/or more tolerable (i.e. on higher cut turf such as tees and fairways). Use higher rates where damage to turf from spring dead spot is not tolerable (i.e. greens).

Vereens Turf Products
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Always read and follow
label directions