



We create chemistry

Immediate knockdown.
Long residual.

Spotless fairways.

Xzemplar[®] fungicide



contents

Innovation that solves your toughest challenges

BASF is dedicated to investing in research that produces quality solutions. For over 150 years, we have developed innovations that help to solve your most pressing challenges, supported by research and an experienced sales and technical team. We create chemistry that leads to healthy, quality turf, greater efficiency and more sustainable solutions for superintendents.

- 1 Xzemplar® fungicide, the new standard for dollar spot control**
- 2 One active ingredient. Two key benefits.**
- 3 The cornerstone of your dollar spot program**
- 4 Cool-season turf diseases controlled by Xzemplar fungicide**
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Xzemplar® fungicide, the new standard for dollar spot control

Dollar spot is done. With **Xzemplar** fungicide, the days of spraying fairways and tees every 10 to 14 days for dollar spot are over. This best-in-class fungicide knocks down dollar spot immediately and provides one of the longest residuals in the industry — up to 28 days.

Xzemplar fungicide delivers both preventive and curative properties to ensure dollar-spot-free fairways, tees and greens. The go-to solution for superintendents around the country, **Xzemplar** fungicide has set a new standard for control of one of the toughest turf diseases. This innovative solution also controls a broad spectrum of other diseases that affect both warm- and cool-season turfgrass.

Key Features and Benefits:

- Immediate knockdown
- Long residual of up to 28 days
- Preventive and curative properties
- Flexible spectrum of disease control
- Non DMI that can be used anytime subject to label restrictions



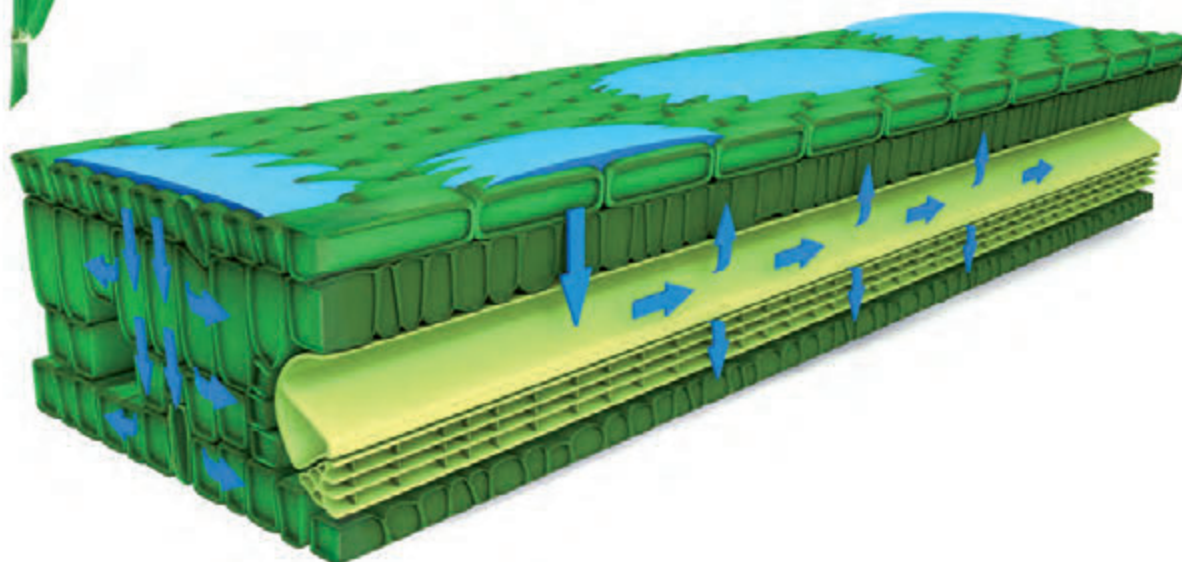
For Use on All Major Turfgrass Sites:

- Golf courses
- Sports and athletic fields
- Parks and recreational areas
- Residential lawns
- Commercial and municipal lawns
- Institutional lawns
- Cemeteries
- Sod farms
- Other maintained turfgrass areas

One active ingredient. Two key benefits.

Most fungicides on the market provide either quick knockdown or long residual.

Xzemplar[®] fungicide provides both. This rare combination is the result of its novel active ingredient, fluxapyroxad, the latest in carboxamide technology.



above:

Fluxapyroxad travels systemically within turfgrass leaves, distributing powerful, long-lasting disease control.

Continuous redistribution in the plant

The unique chemistry inside **Xzemplar** fungicide powers its ability to deliver preventive and curative properties. In addition to being tightly bound to the waxy leaf surface, making it rainfast, fluxapyroxad is redistributed to areas of the leaf that are not directly sprayed. Its unique molecular design lets it enter the transpiration stream and travel systemically within the leaf.

This redistribution, along with its high level of activity, ensures long-lasting preventive and curative effects from fluxapyroxad, resulting in reliable, more consistent disease control.

The cornerstone of your dollar spot program

The most effective way to control dollar spot is to stay ahead of it. With **Xzemplar**[®] fungicide as the cornerstone of your spray program, coupled with other BASF fungicides, you're equipped with one of the industry's strongest lines of defense against dollar spot. Just six critical applications of BASF fungicides will help protect your turf from dollar spot, brown patch and summer patch.

Start early. Treat your fairways with one application of **Emerald**[®] fungicide in the early spring for superior disease control on most major turfgrass species. Follow with one application of **Xzemplar** fungicide in late spring.

Cool-Season 28-Day Fairway Program

App #	Product	Timing	Rate/ 1,000 sq ft	Disease Target	Application Volume
1	Emerald fungicide	April 15	0.18 fl oz	Dollar spot	1-2 gals/1,000 sq ft
2	Xzemplar fungicide	May 15	0.26 fl oz	Dollar spot, summer patch	1-2 gals/1,000 sq ft
3	Honor [®] Intrinsic [®] brand fungicide	June 15	1.10 fl oz	Dollar spot, brown patch, summer patch, fairy ring	1-2 gals/1,000 sq ft
4	Xzemplar fungicide	July 15	0.26 fl oz	Dollar spot, brown patch, summer patch, fairy ring	1-2 gals/1,000 sq ft
5	Xzemplar fungicide	Sept 15	0.26 fl oz	Dollar spot	1-2 gals/1,000 sq ft
6	Emerald fungicide	October 15	0.18 fl oz	Dollar spot	1-2 gals/1,000 sq ft

Start date to be determined by making first application when soil temps are 50°F and turf has been mowed a minimum of three times. For improved fairy ring control, apply a soil wetting agent 1-2 weeks prior to beginning fungicide applications.

*Apply **Xzemplar** fungicide in a program alternating or tank mixing with other registered fungicides that have a different mode of action. Follow **Xzemplar** fungicide label instructions on sequential use specific to target pathogens and other Group 7 products.*

Stay on course. During mid summer, apply **Honor Intrinsic** brand fungicide for long-lasting control of dollar spot and other target diseases plus the plant health benefits offered by **Intrinsic** brand fungicides, including longer, stronger roots and greater stress tolerance. Follow in late summer with one application of **Xzemplar** fungicide for control of dollar spot, brown patch and summer patch.

Finish strong. In early fall, apply **Xzemplar** fungicide for continued dollar spot control. Later in the fall, apply **Emerald** fungicide to help maintain championship conditions your players will enjoy all season.



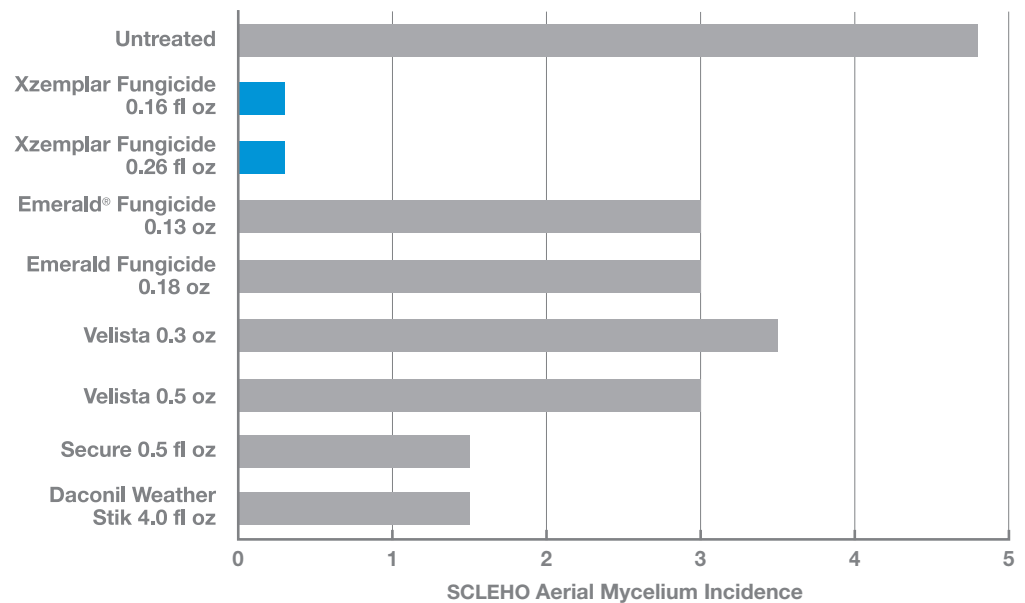
Cool-season turf diseases controlled with **Xzemplar**® fungicide

above:

Dollar spot
(*Sclerotinia homoeocarpa*)

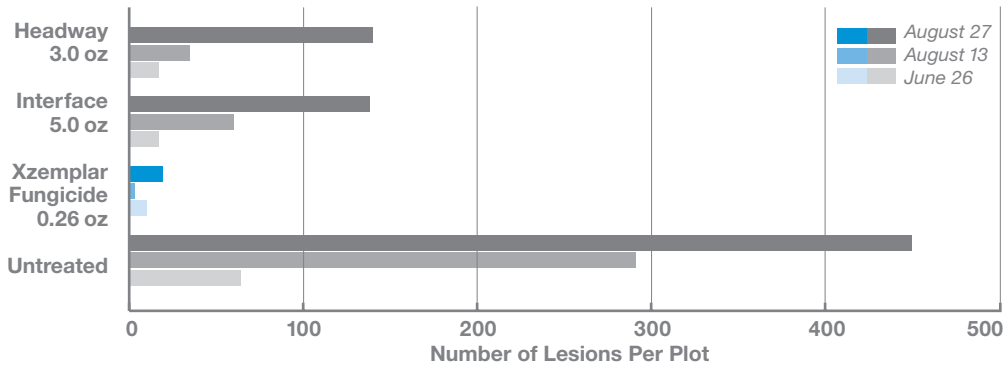
Research from key universities has demonstrated the effectiveness of **Xzemplar** fungicide in controlling turf diseases. This fungicide goes beyond dollar spot to provide broad-spectrum control. It delivers superior performance on other cool-season turf diseases, including brown patch and summer patch.

Dollar Spot Control 4 Days After Treatment



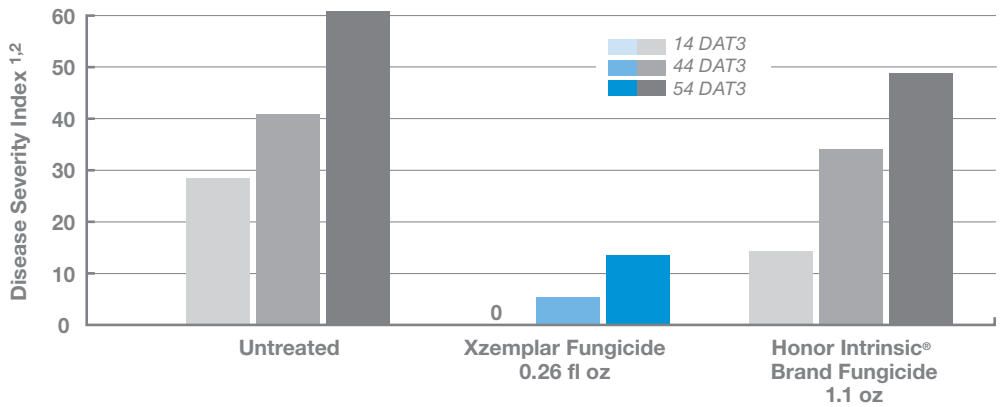
Note: Observations 4 days after treatment on March 3, 2013.
Source: John Inguagiato, Ph.D., University of Connecticut, 2013.

**Xzemplar® Fungicide Dollar Spot Control On Fairways
28-Day Application Interval**



Applications were made on June 4, July 2 and July 30.
Source: Rick Latin, Ph.D., Purdue University, 2014.

**Xzemplar Fungicide Summer Patch Control On Fairways
28-Day Application Interval**



Magnaporthe poa inoculated May 5 to Kentucky bluegrass.
Applications were made on May 22, June 19 and July 17 on a 28-day interval.
Source: Bruce Clarke, Ph.D., Rutgers University, 2012.



above:
Summer patch
(*Magnaporthe poae*)

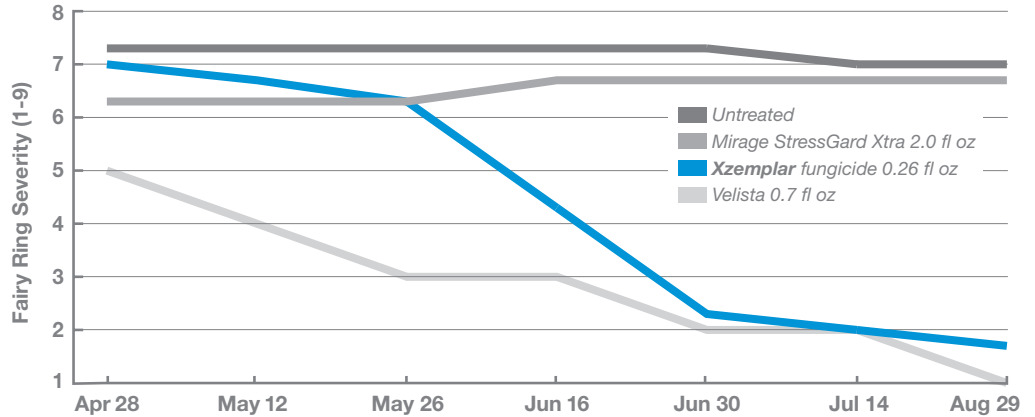


above:
Fairy ring types
Photos: Dr. Mike Fidanza,
Pennsylvania State University

Xzemplar® fungicide fairy ring control

Fairy ring is a common disease that can affect cool- and warm-season turfgrass in any region of the country. Use the below spray program to control fairy ring and boost plant health in warm-season turf.

Xzemplar® Fungicide Control of Fairy Ring



Fairy ring severity is rated on a scale of 1-9, 9 being dead turfgrass. Application dates: March 12 and April 15, 2015. Wilmington, NC on Champion Ultra Dwarf Bermudagrass. Source: Dr. J. Kerns and M. Martin, North Carolina State University, 2015.

Xzemplar Fungicide Control of Fairy Ring and Summer Plant Health Spray Program

App #	Product	Timing	Rate/1,000 sq ft	Disease Target	Application Volume
1	Preferred wetting agent	1-2 weeks prior to first fungicide application	See label	Fairy ring	Combine with other desired cultural methods to improve hydrophobic conditions
2	Lexicon® Intrinsic® brand fungicide	Early summer	0.47 fl oz	Fairy ring, summer plant health	2-4 gal/1000 ft ²
3	ProStar fungicide	Midsummer	2.2-4.5 fl oz	Fairy ring	Choose higher application rate if disease is present
4	Xzemplar® fungicide*	Midsummer	0.26 fl oz	Fairy ring	2-4 gal/1000 ft ²
5	Lexicon Intrinsic brand fungicide	Late summer, if favorable disease conditions persist	0.47 fl oz	Fairy ring, summer to fall plant health	2-4 gal/1000 ft ²

* Now subject to BASF FIFRA Section 2(ee) Recommendations for fairy ring. See www.CDMS.net for BASF Technical Information Bulletins.

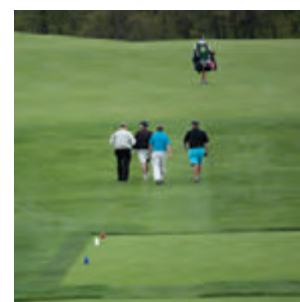
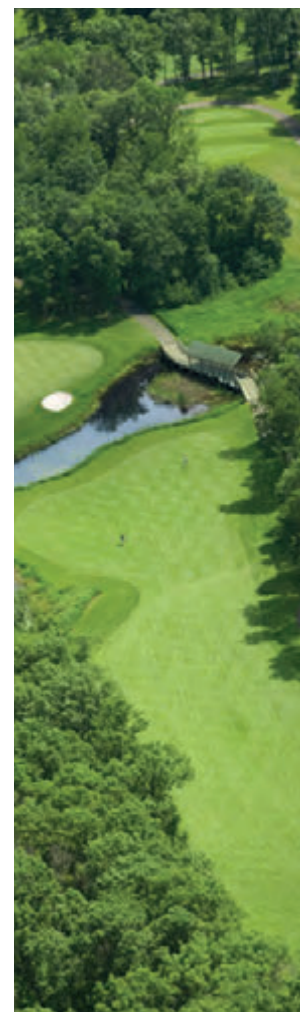
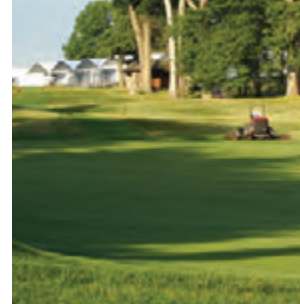
Technical facts about **Xzemplar**® fungicide

- **Xzemplar**® fungicide active ingredient: 26.55% fluxapyroxad
- **Fungicide class:** SDHI or Succinate-Dehydrogenase Inhibitors (Group 7)
- **Formulation:** Suspension concentrate (SC)
- **Packaging:** 2 x 114 fl oz (20 acres) and 4 x 11.4 oz (4 acres)
- **Rates:** 0.16 to 0.26 fl oz/1,000 sq ft on 14-28 day intervals
- **Signal Word:** CAUTION

Diseases Controlled With **Xzemplar** Fungicide

Diseases	Application Interval	Rate Range (fl oz/1,000 sq ft)
Brown patch	14 - 21 days	0.21 to 0.26
Dollar spot	14 - 28 days	0.16 to 0.26
Large Patch	14 - 28 days	0.21 to 0.26
Snow molds	14 - 28 days	0.26
Summer patch	14 - 28 days	0.26
Leaf spot and leaf and sheath spot	14 - 21 days	0.26
Fairy ring	14 - 21 days	0.26

Subject to a BASF Recommendation under FIFRA 2(ee) for fairy ring, Bipolaris leaf spot and Rhizoctonia leaf spot and leaf and sheath spot in certain states. See www.CDMS.net for BASF Technical Information Bulletin.







**Testimonial from Jimmy Devaney, Superintendent,
Upper Course, Baltusrol Golf Club, Springfield, NJ:**

“Dollar spot in our particular microclimate is a tough disease that we struggle with all year long. The big thing for us is getting out, being preventive, and controlling our populations leading into the season. Products like Xzemplar [fungicide] help us do that.”



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Always read and follow
label directions.

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ProStar and Stressgard are registered
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