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Lexicon[™] Intrinsic[™] brand fungicide

C. Martin Martin

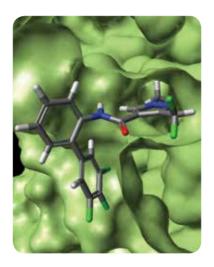
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Lexicon[™] Intrinsic[™] brand fungicide from BASF was developed by combining the latest in carboxamide technology — Xemium[®] fungicide with the power of Insignia[®] Intrinsic[™] brand fungicide. Building on our experience with Honor[®] Intrinsic[™] fungicide, BASF has created a new broader spectrum and more active combination fungicide resulting in improved plant health.

Xemium: Key Technical Characteristics

- Active ingredient: Fluxapyroxad
- Mode of action (see right)
- Redistribution and continuous supply of fungicide in the leaf
- Active on multiple fungal development stages

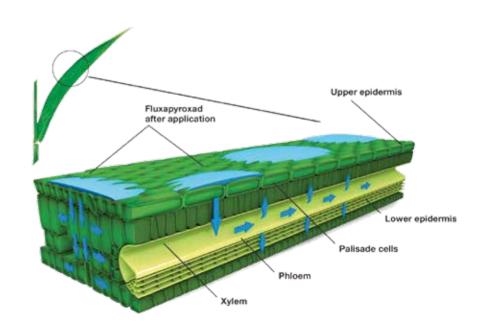


Mode of Action

Fluxapyroxad blocks respiratory Complex II, also known as a succinate dehydrogenase inhibitor (SDHI). Blocking of Complex II disrupts the energy supply and biosynthesis of essential fungal building blocks.

Continuous Redistribution in the Plant

In addition to being tightly bound to the waxy leaf surface, making it rainfast, fluxapyroxad is redistributed from the wax 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 preventative and curative effects from fluxapyroxad thus resulting in reliable more consistent disease control.



When Failure is not an Option

When failure is not an option, trust Lexicon[™] Intrinsic[™] brand fungicide the cornerstone of your healthy fungicide program. Lexicon Intrinsic brand fungicide is the most effective, broadest spectrum turf fungicde and provides the ultimate protection and plant health for your turf. See for yourself and make Lexicon Intrinsic brand fungicide your product of choice for foundation and holiday sprays.



Advanced Disease Control

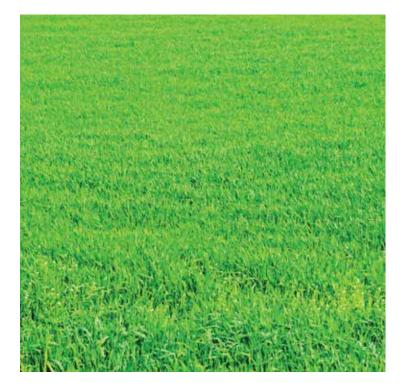
 Combines a next generation carboxamide with enhanced systemic properties for continuous protection with the proven performance of Insignia[™] SC Intrinsic brand fungicide

Advanced Plant Health

- Delivers Advanced Plant Health for increased photosynthesis, stronger roots and improved turf vitality, creating resilience
- The cornerstone of your longer-lasting, more consistent fungicide program

Research Results:

Research has shown that using **Lexicon Intrinsic brand fungicide** as the foundation of a healthy fungicide program can deliver superior disease control and plant health.



Diseases treated by Lexicon:

- Anthracnose; Colletotrichum graminicola
- Bentgrass dead spot; Ophiosphaerella agrostis
- Bermudagrass decline; *Gaeumannomyces graminis var graminis*
- Brown ring patch; *Rhizoctonia circinata* var. *cincinata* (previously called 'Waitea patch')
- Brown patch; Rhizoctonia solani
- Dollar spot; *Sclerotinia homoeocarpa*
- Fairy ring various; Basidiomycete fungi
- Gray leaf spot; Pyricularia grisea
- Large patch of warm season turfgrasses, including Zoysia patch; *Rhizoctonia solani*
- Leaf spots; *Bipolaris, Drechslera*, and *Exserohilum* spp.
- Pink patch; Limonomyces roseipellis
- Pythium blight; *Pythium aphanidermatum, Pythium* spp.
- Pythium root dysfunction; *Pythium volutum, Pythium* spp.
- Rhizoctonia leaf or Sheath blight; R. oryzea, R. zea
- Snow mold, gray and pink; *Typhula incarnata* or *T. ishikariensis* and *Microdochium nivale* or *Monographaella* spp.
- Summer patch; Magnaporthe poae
- Take-all patch; Gaeumannomyces graminis var. avenae

*See label for a complete list of diseases treated.

Use Sites: All major turfgrass use sites, including:

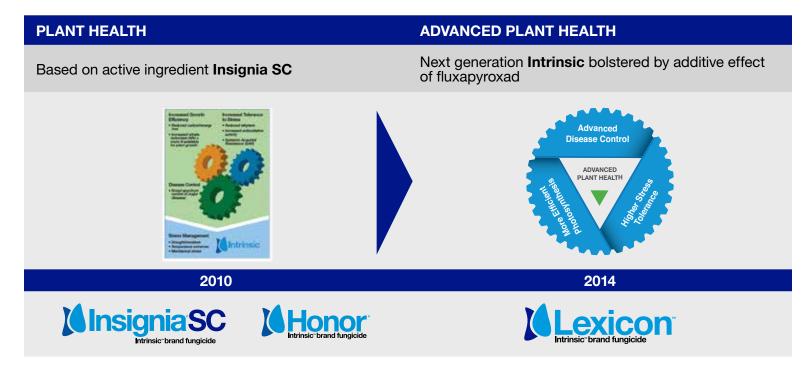
- Golf courses
- Sports and athletic fields
- Parks and recreational areas
- Residential lawns
- Commercial and municipal lawns
- Institutional lawns
- Cemeteries
- Sod farms
- Other maintained turfgrass areas

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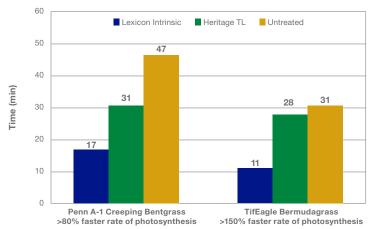
For maximum results apply **Lexicon Intrinsic brand fungicide** at least four times per year targeting high stress times such as spring, summer and fall holidays. For more detailed program recommendations and to target a specific disease problem, please refer to the BASF Fungicide Program Guide or call your local BASF Sales Specialist.

The Evolution of Intrinsic

Intrinsic is the umbrella brand for any BASF fungicide that combines disease control with plant health. **Intrinsic** has been an ever-evolving brand which now includes **Lexicon Intrinsic**, our most advanced plant health product. With the addition of the active ingredient in **Xemium** to the active ingredient in **Insignia SC**, users will see enhanced photosynthesis plus increased root mass.



Enhanced Photosynthesis



Bentgrass had 80% faster rate and TifEagle had 150% faster rate of photosynthesis, which leads to healthier turf.

Rooting of 'Apache' Tall Fescue

Turf grass was placed in a chamber where roots were routinely misted throughout a 24 hour period. An initial application of fungicides were applied at the label rates, and a second application was made two weeks later at the same rates. The photograph at right compares rooting of the turf grass 28 days after the second treatment. **Lexicon Intrinsic brand fungicide** treated turf provided the greatest root mass and greatest root length when compared to Heritage[®] TL and the untreated turf.

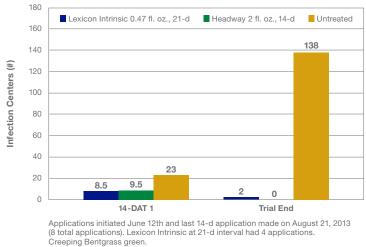


Float time 50 test indicates faster photosynthesis in blade segments treated with Lexicon Intrinsic brand fungicide



Lexicon Intrinsic brand fungicide provided the greatest root mass and root length Location and photo: BASF Corp., Research Triangle Park, NC.

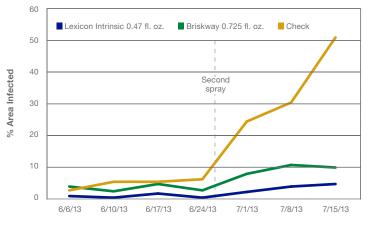
Dollar Spot Efficacy with Fewer Applications



Location: North Carolina State Univ.: J. Kerns. 2013

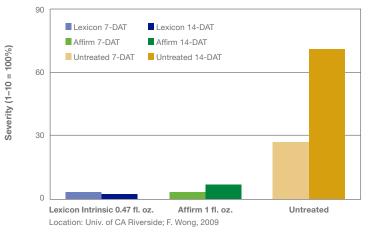
Using Lexicon Intrinsic brand fungicide on a 21-day interval produced the same Dollar Spot control as using Headway - with half the applications!

Consistent Brown Patch Control from Two Applications

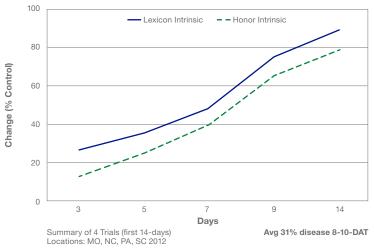


Two applications May 23 and June 23, 2013; 28-d interval. Selected treatments shown. Location: Clemson Univ.; B. Martin, 2013

The Lexicon Intrinsic Difference: Curative Brown Ring Patch Control

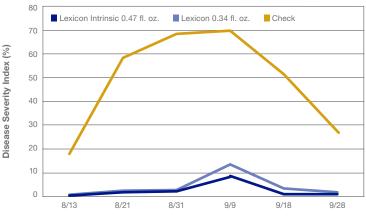


Curative Dollar Spot: Speed of Control



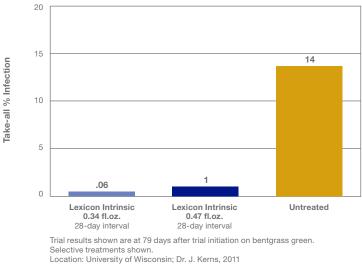
In the first three days, Lexicon Intrinsic brand fungicide demonstrates 50% faster control of Dollar Spot.

Summer Patch Control

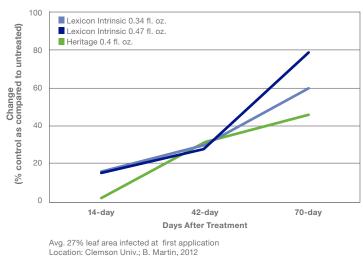


^{*}Four applications 5/26, 6/17, 7/8, 7/29 on a 21-day interval made to Kentucky bluegrass inoculated with Magnaporthe poae. Location: Rutgers Univ.; B. Clarke, 2009

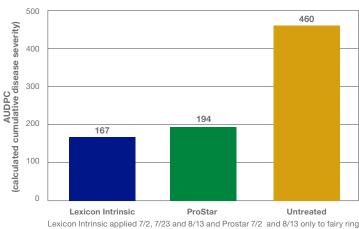
Take-all Patch Efficacy



Speed of Curative *Bipolaris* Leaf Spot Control

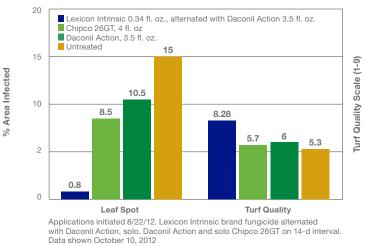


Fairy Ring Efficacy on Tall Fescue Rough



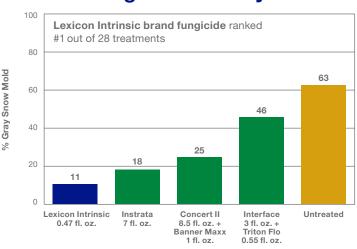
species Agaricus campetris and final observations taken in October. Location: Penn State Univ.; M. Fidanza, 2012

Control of *Bipolaris* spp. leaf spot on TifDwarf Bermudagrass Green



Snow Mold Efficacy on Annual Bluegrass Fairway

Location: Clemson Univ.: B. Martin, 2012



Applications on 11/17/12; data taken on 3/10 with 85 days of continuous snow cover. Location: Sustainable Pest Management Solutions, ID; H. Wetzel, 2013

Lexicon Intrinsic brand fungicide as part of a Bentgrass Summer Stress Program



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Technical Profile for Lexicon Intrinsic Brand Fungicide:

- Lexicon Intrinsic: fluxaparoxad 14.33% + pyraclostrobin 28.58%
- Fungicide Class: Group 7 (SDHI) and Group 11 (Strobilurin)
- Formulation: Suspension concentrate (SC)
- Packaging: 4 x 21 fl. oz.
- Rates: 0.34 fl. oz./1000 sq. ft. to 0.47 fl. oz./ 1000 sq. ft. on 14–28 day intervals

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- Signal Word: Caution
- **REI:** Wait until sprays are dried for all uses other than sod farms. On sod farms REI is 12 hrs.
- **PPE:** Long sleeved shirt and pants/chemical resistant gloves/shoes plus socks

- Use Sites: All major turfgrass use sites, including:
- 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

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