



BASF

We create chemistry

 **Lexicon**[®]
Intrinsic[®] Brand Fungicide

Maxtima[®]
Fungicide

Xzemplar[®]
Fungicide

Your Course's New Best Round

Technical Manual

Our Best Round Yet

Dedicated to investing in the research and development for a complete, quality turf solution, BASF are excited to share *Our Best Round Yet*.

For over 150 years, we have developed innovations that focus on current and pressing challenges, Our Best Round Yet is a culmination of this research in the fungicide market. BASF together with our partners are focused on investigating and delivering best in class innovations and solutions to the Australian Turf Industry. Maxtima® Fungicide, Xzemplar® Fungicide, and Lexicon® Intrinsic® Brand Fungicide are the key players of this revolutionary, and reliable solution. We are excited to introduce these technologies unmatched in efficacy and performance and look forward to bringing new technologies and innovations to compliment this suite in the new future.

Dr. David Elmoultie
Business Manager
BASF Professional and Specialty Solutions

Kiana Barrie-Gresham
Sales & Marketing Coordinator
BASF Professional and Specialty Solutions

Contents

Your Course's New Best Round	
3 groundbreaking chemistry combinations for the complete solution	1
Maxtima® Fungicide:	
Any turf. Any temperature. Anywhere on your course	2-3
Xzemplar® Fungicide:	
The New Thoroughbred Workhorse	4-5
Lexicon® Intrinsic® Brand Fungicide:	
Perfect turf, powered from within	6-7
Rotation. Resistance. Reward	8-9

Your Course's New Best Round

3 groundbreaking chemistry combinations
for the complete solution

Whether it's unrivalled broad spectrum disease control, or efficacy at low use rates, BASF's novel active ingredients are the foundational power behind these 3 fungicides. The 3 unique solutions below, in their own rights are unmatched, and as a complete solution, are the key to championship conditions on your greens and tees, all year long.

	Chemistry Group	Active Ingredient	Key Diseases	Key Benefits
Maxtima® Fungicide	3 (DMI)	400g/L Mefentrifluconazole	Dollar spot Spring dead spot Anthracnose Take-all root rot Take-all patch Brown Patch, Large Patch, Brown Ring Patch	Advanced turfgrass safety Unrivalled broad spectrum disease control Unique DMI for use throughout the seasons Powerful, lasting residual
Xzemplar® Fungicide	7 (SDHI)	300g/L Fluxapyroxad	Dollar spot Brown patch Fairy ring <i>Helminthosporium</i> complex Leaf and sheath spots	Efficacy even at a low use rate Broad spectrum disease control Curative and preventative control Quick knockdown with powerful, lasting residual
Lexicon® Intrinsic® Brand Fungicide	7 (SDHI) & 11 (Strobilurin)	167g/L Fluxapyroxad + 333g/L Pyraclostrobin	Dollar spot Brown patch Pythium ERIs Fairy ring Spring Dead Spot Take-all Patch Brown Patch or Large Patch (<i>Rhizoctonia solani</i>) Fusarium patch Lepista spp. Pythium blight, (<i>Pythium spp.</i>) Pythium root dysfunction, (<i>Pythium spp.</i>)	Broad spectrum control of 9+ diseases Long residual of up to 28 days Advanced plant health benefits Foundational product for greens

Any turf.
Any temperature.
Anywhere on your course.

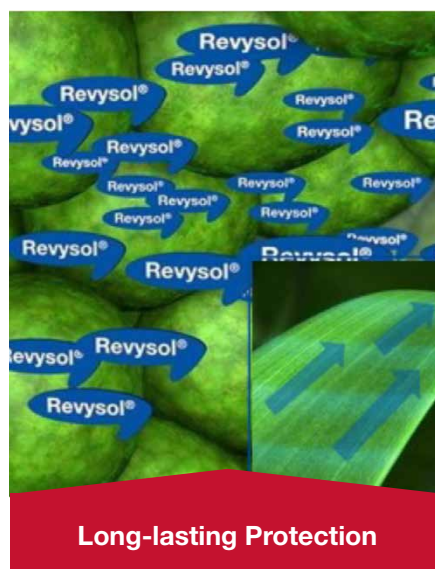
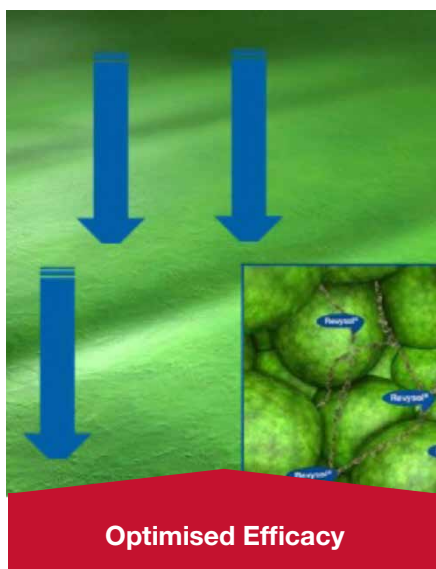
Featuring new Revysol® technology, Maxtima Fungicide is a revolutionary and broad spectrum DMI that offers no limitations to its versatility of application. A DMI that can be applied on any turf, at any temperature, anywhere on your course, Maxtima Fungicide and its novel active, Revysol, deliver flexibility that is best-in-class.

The Science Behind

Revysol features a unique Isopropanol moiety which drives its flexibility as it assumes different conformations in its bound and unbound forms. It is this flexibility which enables maximum disease control, efficacy, and long-lasting protection even in warm summer months.

Rapid uptake of Revysol provides initial, fast action to stop fungal infections. After uptake, this active is well-protected within the inner-leaf reservoir and is drawn on for long lasting protection. Its unique chemical structure enables unsurpassed binding capacity and adaptability, also targeting DMI sensitive strains.

Figure 1: Revysol® outperforms existing benchmarks



Broad spectrum disease control

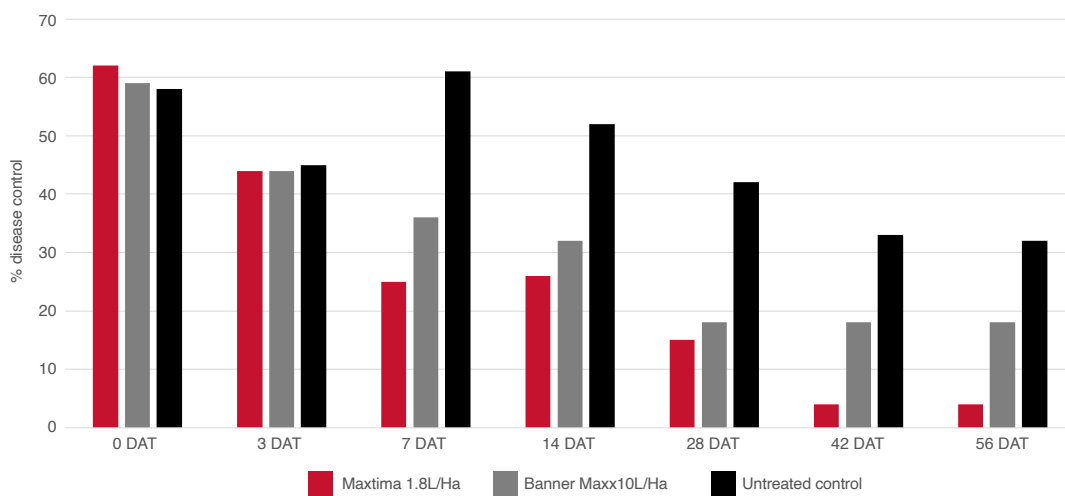
Maxtima Fungicide offers maximum disease performance, at an affordable value for fairways to control:

- Rhizoctonia
- Take all patch
- Take all root rot
- Dollar Spot
- Spring Dead Spot
- Anthracnose

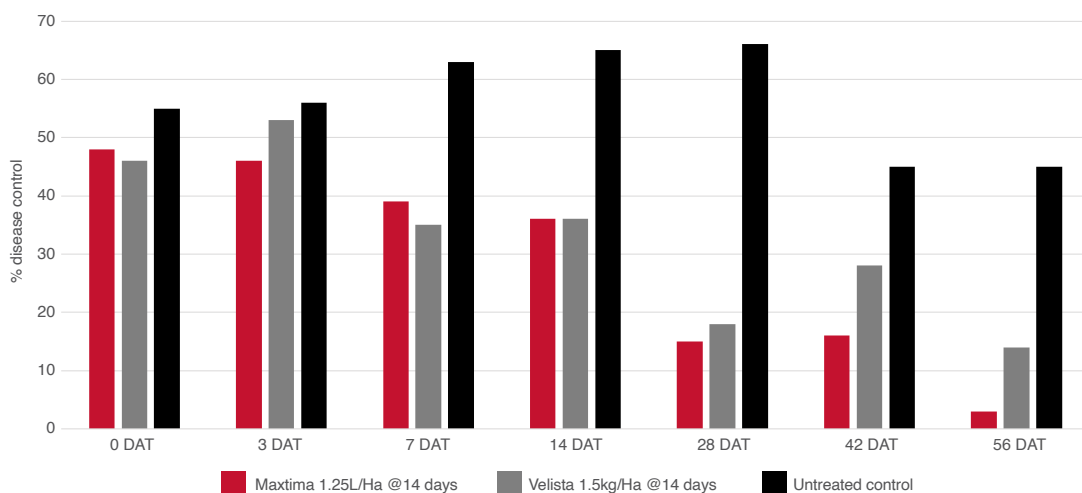
Whether you spray at 14, 21, or 28# days, Maxtima fungicide has both the residual staying power and attractive pricing to fit your budget. The varied and low use rates enable value you can afford specific to the situation without compromising residual.

#spray intervals are disease dependent.

Unmatched Performance on Spring Dead Spot



Exceeding benchmarks in Anthracnose Control



The New Thoroughbred Workhorse

Featuring unique Xemium® carboxamide technology, Xzemplar Fungicide promises outstanding performance in the toughest situations. An SDHI with broad spectrum preventative and curative action of disease control, Xzemplar Fungicide is the new workhorse with unmatched Dollar spot control.

The Science Behind

BASF's Xemium technology, disrupts the energy supply and biosynthesis of fungal building blocks via the respiratory chain. This highly systemic SDHI technology ensures the active ingredient is redistributed from the waxy layer of the leaf to other areas of the turf, enabling long lasting curative and preventative control.

Unlike other Azole, Strobilurine or other Carboxamides based technologies, Xemium actively disrupts the biosynthesis of fungi in almost all stages of the life and infection cycles, including spore germination, germ tubes, penetration hyphae, and mycelium growth.

Figure 2: Highly systemic distribution of Xemium in the turf leaf

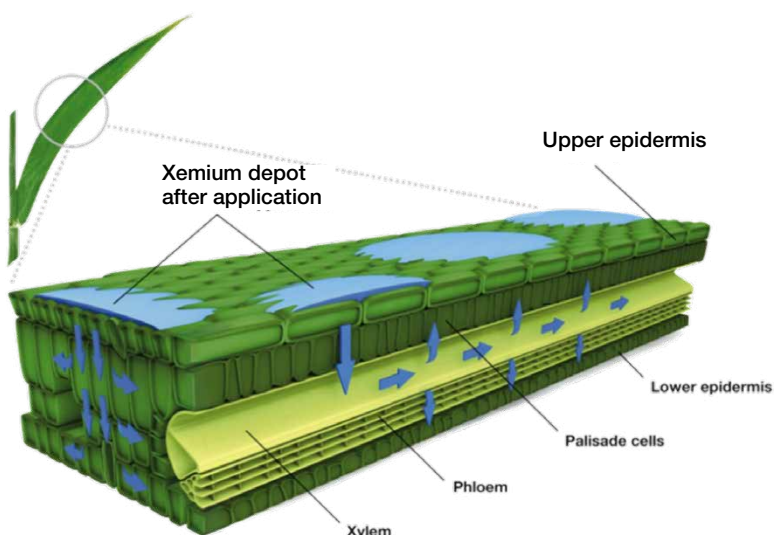


Figure 3: Extended Xemium® activity unlike any other technology



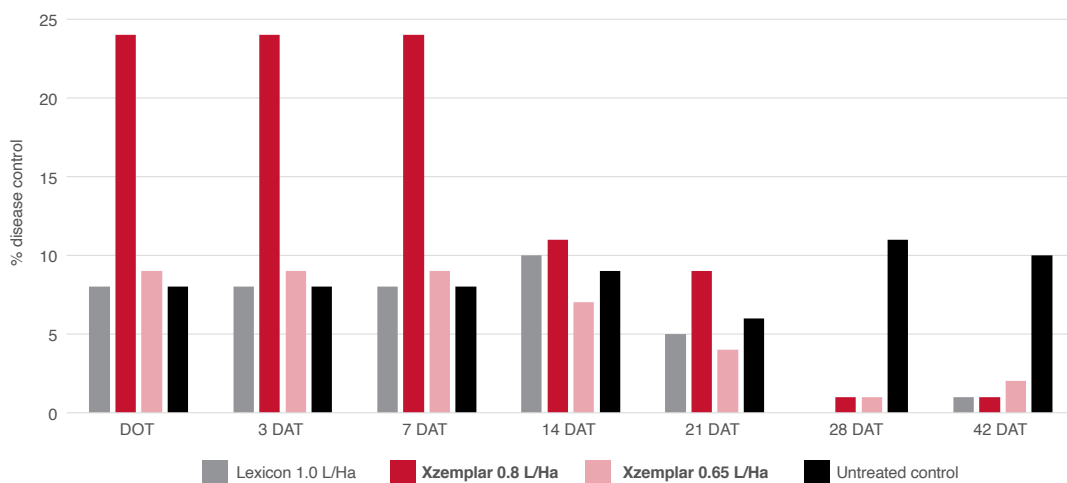
Broad spectrum disease control

Xzemplar Fungicide offers broad spectrum disease control with efficacy at low use rates to control:

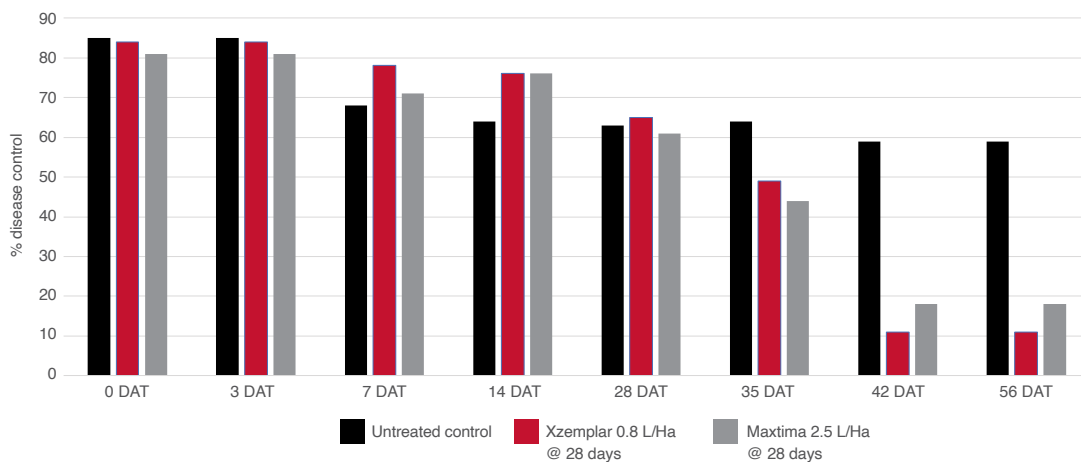
- Brown patch
- Fairy ring
- Leaf and sheath spot
- Dollar spot

Xzemplar fungicide is the number one rated product for Dollar spot control. With efficacy at low use rates, Xzemplar fungicide does not compromise turf health, nor cost effectiveness, making it an essential rotation partner for best-in-class, consistent performance.

New Standard for Dollar Spot



Controlling the toughest diseases – Fairy ring



Perfect turf, powered from within

Featuring a powerful dual chemistry combination, Lexicon® Intrinsic® Brand Fungicide delivers best in class disease control with advanced plant health benefits. Lexicon Intrinsic Brand Fungicide is the foundation product you can count on for consistent, longer-lasting protection with advanced, proven plant health benefits including increased photosynthesis, stronger roots, improved turf vitality and resilience.

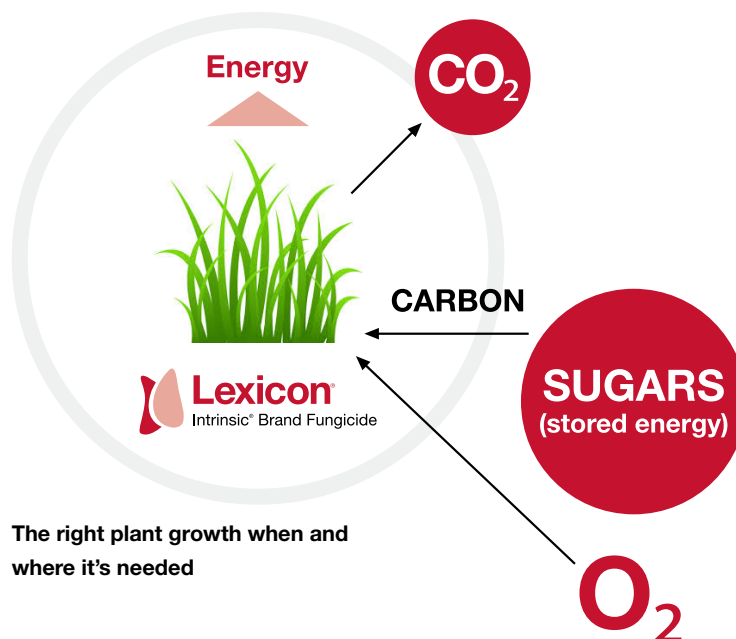
The Science Behind

Lexicon Intrinsic Brand Fungicide combines two chemistries to ensure the ultimate confidence in turf health and disease management:

BASF's Xenium technology, disrupts the energy supply and biosynthesis of fungal building blocks via the respiratory chain. This highly systemic SDHI technology ensures the active ingredient is redistributed from the waxy layer of the leaf to other areas of the turf, enabling long lasting curative and preventative control.

Pyraclostrobin inhibits fungal respiration, in addition to redirecting energy and growth to the root system, ultimately resulting in a more efficient and healthy plant. This chemistry promotes vigorous vitality in turf enabling it to fight and respond to stressors such as extreme heat and drought.

Figure 4: Lexicon intrinsic Brand Fungicide enhances night respiration advancing plant health



Broad spectrum disease control

Lexicon Intrinsic Brand Fungicide combines broad spectrum disease control with advanced plant health benefits:

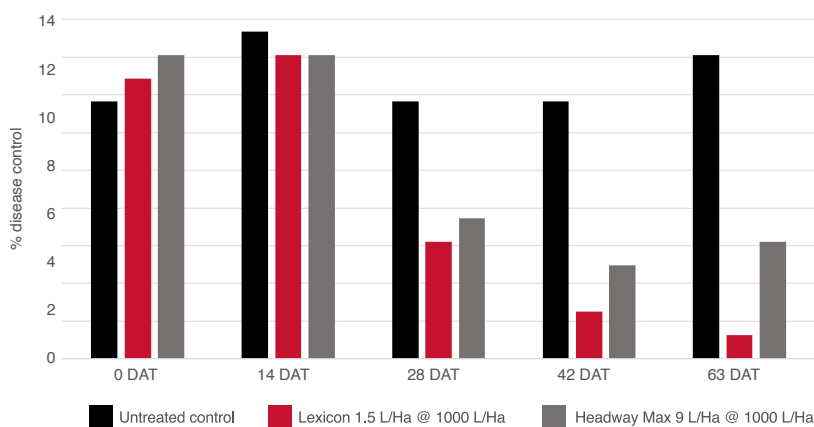
Disease Control:

- Spring Dead Spot
- Take-all Patch
- Pythium
- Dollar spot
- Brown Patch or Large Patch (*Rhizoctonia solani*)
- Dollar spot (*Sclerotinia homeocarpa*)
- Fairy ring (*Basidiomycete fungi*)
- Fusarium patch (*Microdochium nivale* or *Fusarium* spp.)
- *Lepista* spp.
- Pythium blight, (*Pythium* spp.)
- Pythium root dysfunction, (*Pythium* spp.)

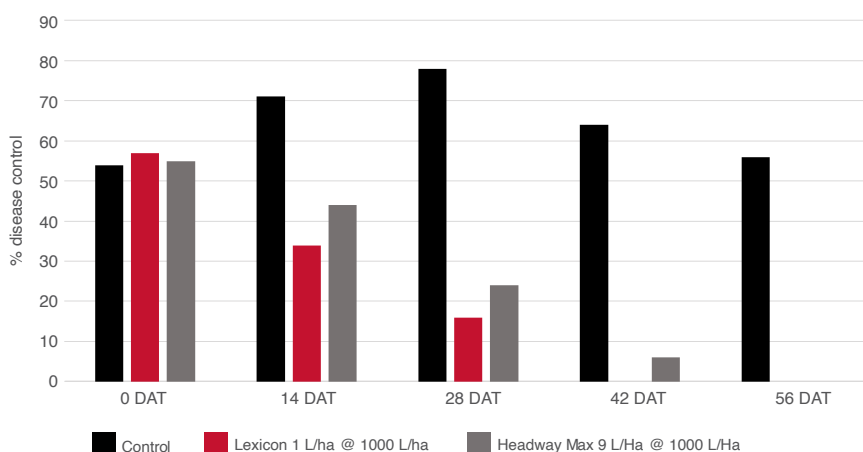
Plant Health Benefits:

- Withstand stress
- Increased growth efficiency
- Longer, stronger roots
- Optimised emergence and vitality

Broad spectrum control - Spring Dead Spot & Take-all Patch



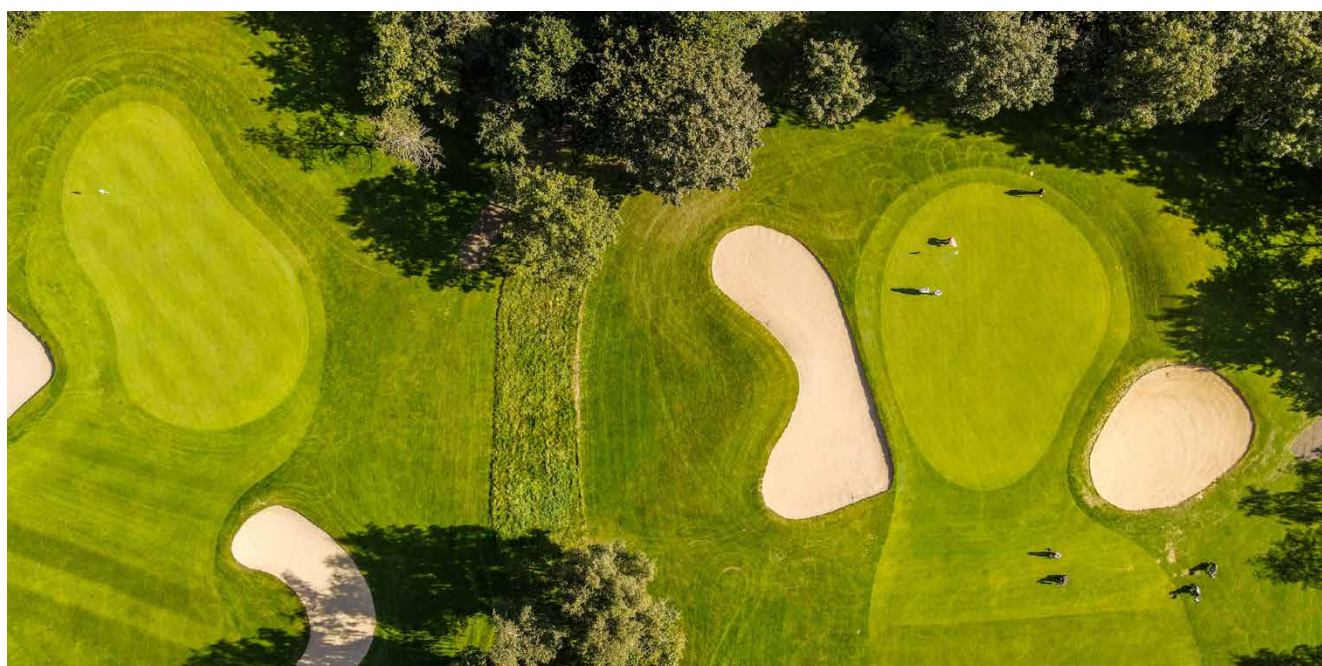
Broad spectrum control - Pythium Species



Our Best Round Yet

Our Best Round Yet is the culmination of fungicide research that targets current, pressing industry challenges, and provides an exciting foundation to solutions for challenges that may present in the future.

Curated to combat DHI sensitivity, SDHI reliance and resistance, and turf health, Our Best Round Yet provides a best-in-class rotation program for cool and warm season turf.



Rotation. Resistance. Reward.

Xzemplar® Fungicide

Maxtima® Fungicide

- Unmatched Anthracnose and Spring dead spot control
- DMI for use all year round
- Reduces pressure on SDHI chemistry and promotes resistance management

- Ultimate control for Dollar spot
- Consistently high performing at low use rates, optimising turf health
- Curative and preventative control, partnering in rotation with Lexicon Intrinsic Brand Fungicide

- Advanced plant health benefits including superior root strength and resilience to stressors
- Quick knockdown and lasting residual
- Dual chemistry optimising both disease control and overall turf vitality





Maxtima[®]
Fungicide

Xzemplar[®]
Fungicide

For more information on
Lexicon Intrinsic Brand Fungicide,
Maxtima Fungicide or
Xzemplar Fungicide
visit **turf-solutions.basf.com.au**
or call **1800 558 399**