



# Exteris Stressgard<sup>®</sup>



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# Exteris Stressgard®

Exteris Stressgard® is a next-generation fungicide containing a unique combination of two active ingredients and two proprietary formulation technologies.

Exteris Stressgard® delivers preventative and fast curative control of a broad spectrum of damaging turf diseases as well as improved plant health and turf quality. The unique formulation of Exteris Stressgard® delivers a highly flexible product that turf managers can apply with confidence throughout the year and under a wide variety of environmental conditions.

## MODE OF ACTION

Exteris Stressgard® contains a new SDHI fungicide from a unique chemical group combined with a proven QoI partner.

Fluopyram is the only fungicide in the pyridinyl-ethyl-benzamide group with a unique spectrum of activity that differs from all current SDHI fungicides on the market.

The combination with trifloxystrobin provides the benefit of mesostemic activity and increases the spectrum of diseases controlled.

The end result is a new broad spectrum fungicide for turf managers that provides excellent long-lasting, preventative and curative control of turf diseases without any growth regulation concerns.



“The active ingredient is new to the turf market. It’s obviously crucial to rotate your fungicide groups and that’s what we are looking at doing here. We’re fighting dollar spot in spring and autumn, so obviously rotation is the key. We applied the Exteris Stressgard and didn’t get dollar spot in any of the greens.”

Ian Thompson, Course Superintendent, Penrith Golf Club, NSW



## MODE OF ACTION TABLE FOR TURFGRASS FUNGICIDES

<b>M</b> multisite	<b>29</b> unspecified	<b>1</b> methyl benzimidazole carbamates	<b>2</b> dicarboximides	<b>3</b> DMI's	<b>4</b> phenylamides	<b>7</b> SDHIs	<b>11</b> QoIs	<b>12</b> phenylpyrroles	<b>14</b> aromatic hydrocarbons	<b>28</b> carbamates	<b>33</b> phosphonates
<b>Mz</b> mancozeb	<b>Fz</b> fluazinam	<b>Th</b> thiabendazole	<b>Ip</b> iprodione	<b>Pr</b> propiconazole	<b>Me</b> metalaxyl	<b>Ft</b> flutolanil	<b>Az</b> azoxystrobin	<b>Fd</b> fludioxonil	<b>Et</b> etridiazole	<b>Pp</b> propamocarb	<b>Fa</b> fosetyl-AI
<b>Ch</b> chlorothalonil				<b>Tb</b> tebuconazole		<b>Pe</b> penthioopyrad	<b>Tf</b> trifloxystrobin		<b>To</b> tolclofos		
<b>TH</b> thiram				<b>Td</b> triadimenol		<b>Fr</b> fluopyram					
				<b>Ti</b> triticonazole							

\*Based on FRAC (Fungicide Resistance Action Committee) Mode Of Action Classification

## RESISTANCE MANAGEMENT

Exteris Stressgard® is an excellent tool to use as part of a fungicide rotation program to help manage the risks of resistance development, particularly in high risk diseases such as dollar spot.

Exteris Stressgard® provides an excellent level of control of dollar spot and with no known cross resistance, will control dollar spot populations that are resistant to other chemistries.

Exteris Stressgard® should be used as a preventative or early curative application, and rotated with other chemistries as part of a resistance management program.

Refer to Mode of Action table.

## FORMULATION

Exteris Stressgard® is the only product that includes a combination of Leaf-Cote™ and Stressgard® Formulation Technologies, making it an ideal choice for a range of surfaces where turf quality is paramount such as golf greens, high profile sportsfields and bowling greens.

> Leaf-Cote™ Technology is engineered to enhance spray droplet dynamics and maximise the amount of active ingredient on the target surface. This ensures optimum performance across a wide range of spray volumes and environmental conditions, giving great flexibility in use for turf managers.

- Improves spray droplet coverage and adhesion
- Fast dry time on leaf surface
- Improves rainfastness
- Fast curative control

> Stressgard® Formulation Technology

- Enhances plant health effects
- Alleviates both abiotic & biotic stresses
- Mitigation & recovery from wear stress
- Improves turf colour, quality & density

## PLANT UPTAKE AND MOVEMENT

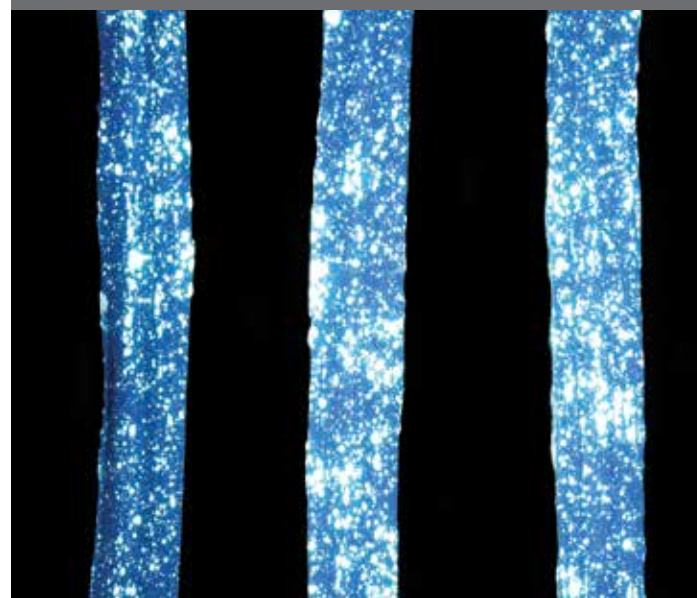
Exteris Stressgard® is a systemic fungicide, meaning it is absorbed into the plant tissue and translocated to protect new growth that occurs after application.

The benefits of this product are enhanced because there are two active ingredients, with two different modes of action. The SDHI active ingredient, fluopyram, is an acropetal penetrant that forms a protective barrier on the leaf and permeates into it, moving upwards in the plant's xylem (water channel) to the tip of the leaf.

The QoI active ingredient, trifloxystrobin, is mesostemic (local penetrant) which also forms a protective barrier on the leaf surface and penetrates the leaf where it's deposited, so that targeted control can be achieved.

The combination of these two specific modes of action means that control is highly effective and long lasting.

Leaf-Cote™ Advanced Delivery System  
showing excellent leaf coverage from Exteris Stressgard®



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## USING Exteris Stressgard®

Exteris Stressgard® can be used in a preventative fungicide program, applied at 14-28 day intervals. Use the shorter interval under high disease pressure or when applying as a curative.

Exteris Stressgard® can be used throughout the year to prevent dollar spot, brown patch, fusarium and other diseases.

Exteris Stressgard® has excellent turf safety and shows no growth regulation associated with some other fungicide chemistries such as DMIs, meaning the product can be used with confidence during the peak of summer heat, extreme cold and during application of growth regulator programs.

With its disease knockdown properties and short dry time on the leaf, Exteris Stressgard® also provides quick knockdown of disease so it can be used effectively in a curative disease management program.

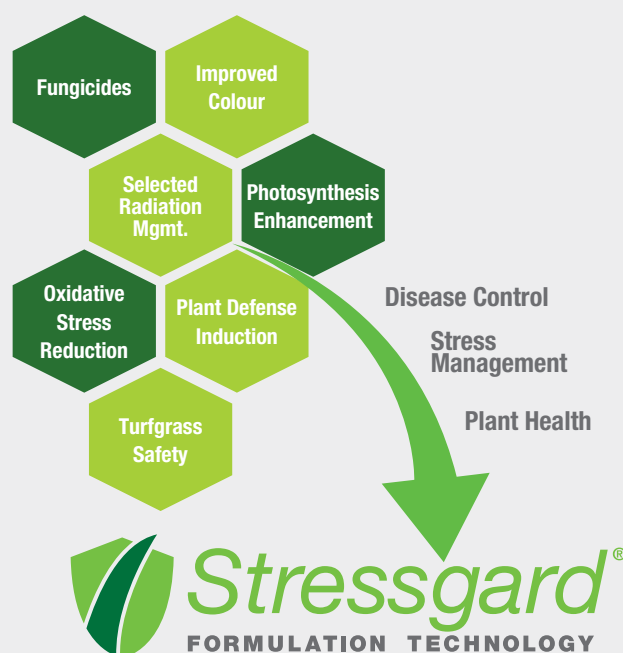


“As a preventive application I didn't see any activity of dollar spot at all which was fantastic for us. I noticed it went out very evenly and the coating of the leaf was quite thorough. It looked like the droplet and the dispersion was covering all surfaces so I thought it was fantastic. It was easy to use for the applicator. Putting it in the tank, rinsing it through, some fungicides will be thick in the bottom of the container and hard to rinse out. Exteris Stressgard didn't have that.”

Shane Greenhill, Course Superintendent, Sorrento Golf Club, VIC

“We seemed to get great results controlling dollar spot and a bit of fusarium as well. The longevity we got out of it was excellent. It seemed to hold on for at least 6-7 days longer than some other products. It made the greens look quite nice and healthy, they looked very playable, very attractive to all golfers that wanted to come out and play the course.”

Keenan Hobbs, Course Superintendent, Wollongong Golf Club, NSW



Bayer Stressgard® FT products are patented and unique. Products containing Stressgard® Formulation Technology have been proven to improve net photosynthesis and chlorophyll, resulting in improved turf quality, increased stress tolerance, increased density and increased rooting.

Superintendents can trust Bayer Stressgard® FT fungicides to deliver outstanding disease control and turf health.

To get the most out of Stressgard® Formulation Technology, apply regularly in a program, beginning prior to, and continuing through the key stress period. Exteris Stressgard®, together with Signature™ Stressgard®, Interface® Stressgard and Reserve® Stressgard, expands the Bayer Stressgard® FT portfolio to four products.

This means there is more flexibility for turf managers to develop a Stressgard® FT program with the most appropriate Stressgard® FT products for their situation, delivering trusted disease control and turf quality enhancement even during the highest stress and disease pressure periods.

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## AT A GLANCE

Active ingredients: fluopyram + trifloxystrobin

FRAC\* Code: 7 + 11 (SDHI + QoI)

Mode of Action: Respiration inhibitors

Systemicity: acropetal + mesostemic

Formulation: suspension concentrate

Signal Word: Caution

Diseases controlled: dollar spot, brown patch, fusarium, helminthosporium, gray leaf spot, rust

Application rate: 10 L/ha

Spray volume: 400 - 800 L water/ha

Pack size: 5 L

## FEATURES & BENEFITS

A new SDHI fungicide from a unique chemical group combined with a proven QoI partner

- > Broadspectrum control of tough diseases
- > Helps manage resistance
- > Dual action knockdown power and lasting control
- > No concern of growth regulation, so safe to use during summer stress and growth regulator programs

Contains Leaf-Cote™ Technology

- > Faster disease knockdown means less scarring and quicker turf recovery
- > Flexibility to use across a range of spray volumes and not impact performance
- > More confidence to perform when environmental conditions are challenging

Formulated with Bayer's proprietary Stressgard® Formulation Technology

- > Peace of mind from plant health enhancement
- > Alleviates both abiotic & biotic stresses
- > Improves turf colour, quality & density
- > Greater flexibility to build a Stressgard® FT program

Convenient, easy to use liquid SC formulation

- > No fuss mixing and application
- > Minimal PPE requirement
- > Compatible formulation

Especially with the *Poa annua* we've got to get a really good coverage across our surface and that means we have got to use finer nozzles and often products can hinder that and block nozzles, but we experienced with Exteris Stressgard that the formulation went through the spray tank nozzles really well with no issues whatsoever."

Adam Lamb, Course Superintendent, Barwon Heads Golf Club, VIC



"We had the outbreak of dollar spot, and it was quite severe. We applied the Exteris Stressgard and we got a really good result from it. We could see the next day how rich in colour they were and it was cured within that week, you could see improvements definitely in that week."

Rob Harper, Course Superintendent, Yarrambat Golf Club, VIC

"I needed something that would last a bit longer so I trialled Exteris Stressgard and had fantastic results. It was just one of those products that I didn't have to worry about monitoring greens on a daily basis during the construction phase. It gave me a longer period of control."

Craig Molloy, Course Superintendent, Cypress Lakes Resort, NSW

Our mission:

“Bayer: Science For A Better Life”

Bayer is an international life science company offering innovative products that serve the health of humans, plants and animals.

As an inventor company, Bayer sets trends in these research-intensive areas. Bayer’s products and services are developed to improve the quality of life. Bayer is committed to the principles of sustainable development, placing equal value on our economic, environmental and social performance.

Environmental Science, a business unit of the Crop Science Division of Bayer, is a leader in our industry today, and aspires to become a thought leader tomorrow.

Guided by our purpose of “Fostering Healthy Environments where we Live, Work, and Play”, we aim to provide to our customers high-quality solutions beyond products, investing in innovation, promoting sustainable development, and strengthening our customer centricity.



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