



Dedicate[®]



Trust in,

the power of prevention



//// Your success, our science



Dedicate® is a highly effective contact and systemic turf fungicide. It is rapid acting on a broad spectrum of diseases, long lasting and can be used throughout the year.



Key features and benefits

Dedicate® is a broad spectrum contact and systemic turf fungicide, containing 200g/lit (18.2% w/w) tebuconazole and 100g/lit (9.10% w/w) trifloxystrobin.

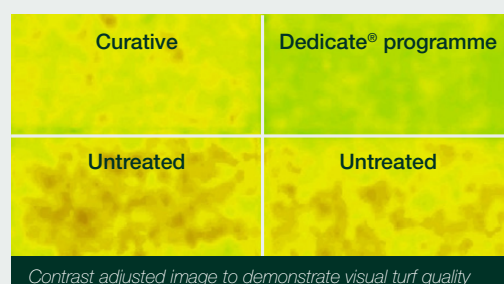
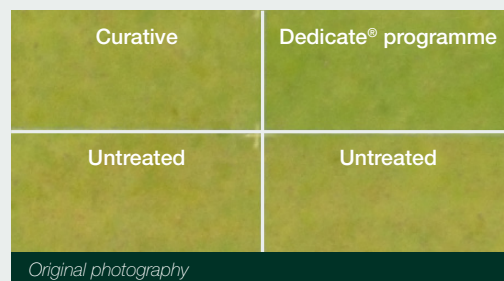
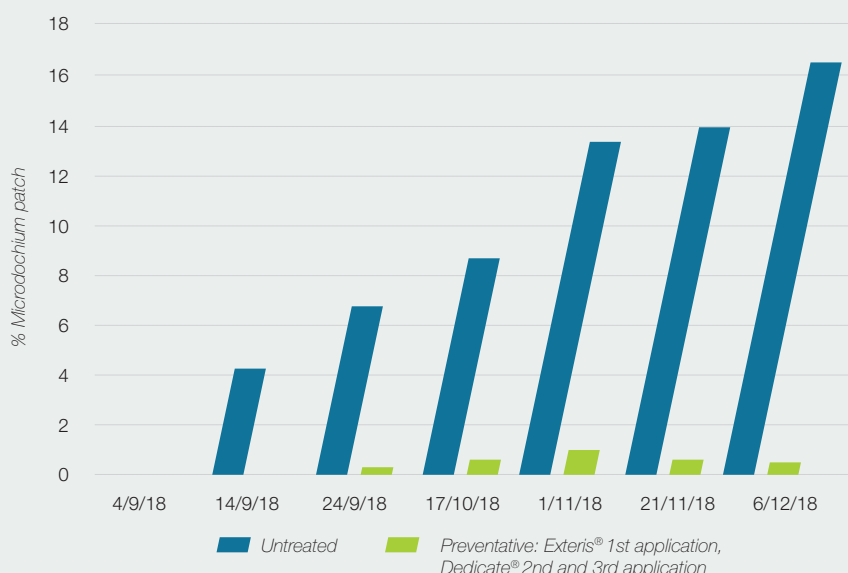
- // **Preventative and early curative disease control**
- // **Diseases controlled:** Microdochium Patch, Anthracnose, Dollar Spot, Leaf Spot, Red Thread and Rust
- // **Rapid-acting** – proven results within two weeks of application
- // **Contact and systemic turf fungicide**
- // **Superior penetration** – dual action protects your turf inside and out
- // **Containing two fungicide groups** – minimise resistance risk
- // **Can be applied all year round** – with up to 4 applications a year
- // **Low dose** – 1 Litre treats 1 hectare

Application rate	Water rate
1L / hectare	400-500L / hectare



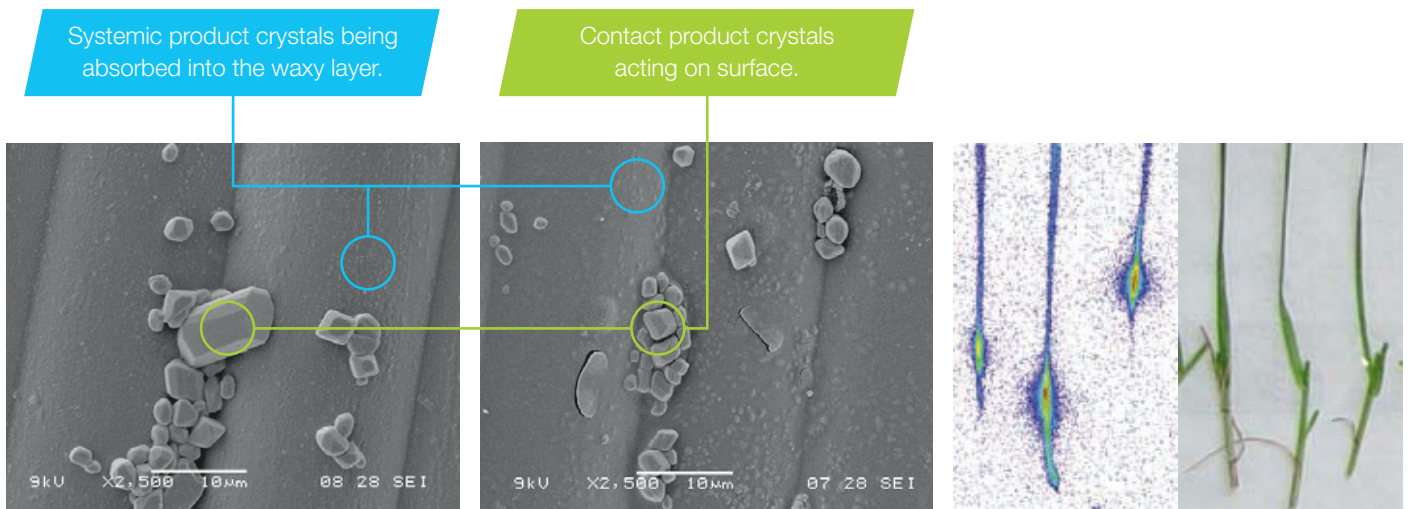
The power of prevention

Over 2 seasons (2017 to 2019) Bayer Turf Solutions undertook extensive independent trials based at the STRI. These season long trials were undertaken to illustrate the significant benefits of employing preventative Microdochium Patch control programmes vs curative controls. Dedicate was a key foundational product as part of the preventative programme during the peak season of pressure (Oct–Nov). The trials provided clear evidence of improved plant health, consistency and satisfaction.



Fast acting absorption

Dedicate® has been proven to be fast acting. Once the spray application has dried on the leaf surface, rainfall will not interfere with its ability to control disease, due to combined contact action and systemic properties.

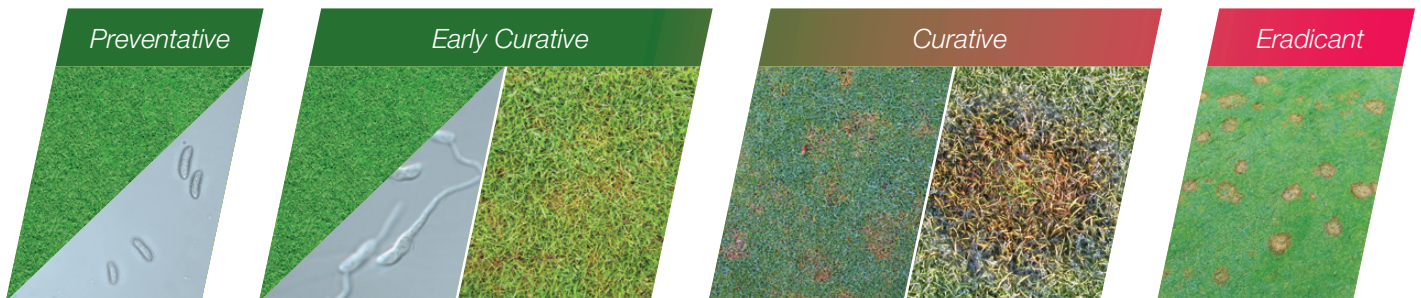


Product on leaf surface before and after a heavy rain shower (30 minutes after application)

Radio-labeling: Showing excellent systemic activity of Dedicate® in the leaf blade after 1 hour of constant rain

Microdochium Patch control

During autumn the turf grass is exposed to a number of unique stresses which, if unmanaged, will create the perfect environment for Microdochium Patch to thrive. To maximise product performance and disease control efficacy, timing of application is key.



For best results apply preventatively or at the first signs of Microdochium Patch.

When to apply Dedicate®

When to not apply Dedicate®

Time for preventative application	Spore Germination	Very first signs of Microdochium Patch development	Early Microdochium Patch spreading	Microdochium Patch spreading with mycelial growth	Fully developed Microdochium Patch
Spores are present but are dormant	Spores are active but they are not visible to the naked eye	Visible to the naked eye			



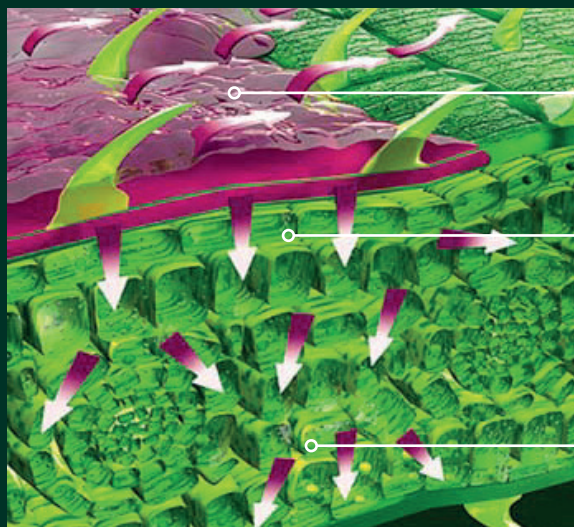
Images of the stages of disease development courtesy of STRI.



Images of microdochium spores courtesy of Fera Science Limited.

Fungicide that works both inside and out

Dedicate's® dual action protects your turf inside and out. The enhanced formulation has a unique "additive system" which provides improved contact action, increased weather durability and superior penetration and uptake to give fast control.



Strong activity on the plant surface.

Re-distribution of the product occurs at the plant surface. The active components are absorbed by the waxy layer (which enhances rainfastness) and then penetration occurs into the plant tissue (translaminar movement).

Systemic activity throughout turf plant.

Control against 6 key turf diseases

Dedicate is a preventative and early curative disease control and can be used on a broad spectrum of diseases.

	Microdochium patch	Red thread	Dollar spot	Anthracnose	Leaf spot	Rust
Control	✓	✓	✓		✓	
Moderate						
Reduction				✓		✓



Bayer

Science for a **better life**

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All information was deemed correct at time of print. Published August 2020. © Bayer Crop Science Ltd. Dedicate® contains 200 g/L Tebuconazole and 100 g/L Trifloxystrobin. MAPP Number 17003. Use plant protection products safely, always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label. Dedicate® is a trademark of Bayer.



**Exteris[™]
Stressgard[®]**

**IRWINS
SPORTSTURF**

A brand new chapter in **disease management**

1st

IN ALMOST
TEN YEARS

for the turf
industry

NEW

A.I CHEMICAL
GROUP





ExterisTM Stressgard[®]

**DISEASE
MANAGEMENT**
for Microdochium
Patch & Dollar Spot

Brand new Turf Chemistry...
Brand new Turf Fungicide Group...
Brand new from Bayer...

Exteris Stressgard

Exteris Stressgard is the first combination SDHI fungicide to be launched in the UK turf sector. Expertly engineered to target microdochium patch, it contains the first new chemical group to be introduced in ten years, delivering first class disease management and proven plant health benefits.



**Disease
management**



**Stress
management**



**Plant
health**



**Turf colour
and density**

Extensive range of applications



**Golf greens, tees
& fairways**



**Sports grounds
& stadiums**



Bowling greens



Cricket pitches

Our new Exteris Stressgard fungicide has been developed for use during the peak Microdochium Patch season. This is typically when turf growth begins to slow and becomes more susceptible to disease pressure.

But Exteris Stressgard isn't just a new product, it's a **whole new category of fungicide, Succinate DeHydrogenase Inhibitor (SDHI)**. The SDHI name is derived from the fact that Exteris Stressgard interferes with a molecule in the electron transport chain. In order to make energy, fungi move electrons through a chain of different molecules. At the end of this chain ATP is produced, a molecule that all living organisms use as an energy source, Exteris Stressgard halts this process.

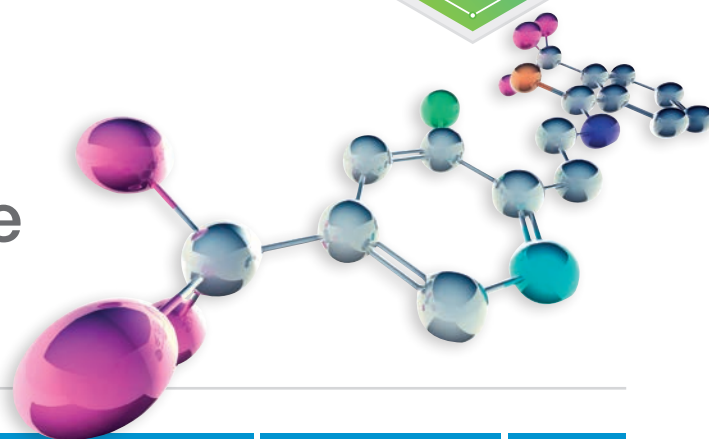
The last time a new chemical group was introduced for UK turf was almost **10 years ago**, so we recognise the need for new and effective solutions. Rotation of fungicide groups is essential for good resistance management and this new SDHI group offers a new choice for effective disease management.



the UK's 1st
SDHI

Fluopyram

The active ingredient in the new Exteris Stressgard



Disease management

Fungicides inhibit fungal growth by interfering with critical cellular processes. Mode of action refers to the specific cellular process inhibited by a particular fungicide. Fungicides are categorised by groups, whereby the mode of action of these categories are similar in function; the table illustrates the fungicide groups currently available to turf managers:

In nature mutations are happening all the time which means all pathogens have the potential to develop resistance. Exteris Stressgard brings a whole new group of chemical disease management increasing the ability of turf managers to proactively manage this risk. Resistance occurs when a pathogen becomes so insensitive to a fungicide that the fungicide's performance is impaired.

Fungicide group available to turf managers	Active Ingredient (AI)	FRAC code
Phthalonitrile	Chlorothalonil	M5
Phenylpyrrole	Fludioxonil	12
Dicarboximide	Iprodione	2
Quinone Outside Inhibitor (QoI)	Azoxystrobin, Pyraclostrobin, Trifloxystrobin	11
Demethylation Inhibitors (DMI)	Propiconazole, Tebuconazole, Prochloraz*	3
Succinate DeHydrogenase Inhibitor (SDHI)	Fluopyram	7

Brand new from



*Can no longer be used after 30th of June 2017

What is Exteris Stressgard?

Exteris Stressgard is a turf specific combination fungicide utilising Succinate DeHydrogenase Inhibitor (SDHI) and proven Quinone Outside Inhibitor (QoI) modes of action. Exteris Stressgard is a systemic foliar disease specialist, uniquely formulated to offer fungicidal management of microdochium patch and dollar spot along with the plant health benefits of Stressgard Formulation Technology in a single solution.

What is an SDHI?

The SDHI in Exteris Stressgard is Fluopyram which is commonly referred to as an Acropetal Penetrant. Acropetal penetrants can penetrate plants through roots, shoots and leaves. They form a protective barrier on the plant, permeate into the plant, and move upward (acropetally) in the plant's xylem. These fungicides have protective activity including some new growth and have some curative activity.



Prevention is
BETTER
than cure

Precision management for healthy turf

Preventative applications provide protection for the plant prior to disease occurrence. By selecting an appropriate fungicide in advance, longevity can be maximised by using the appropriate product for the grass growth at that time.

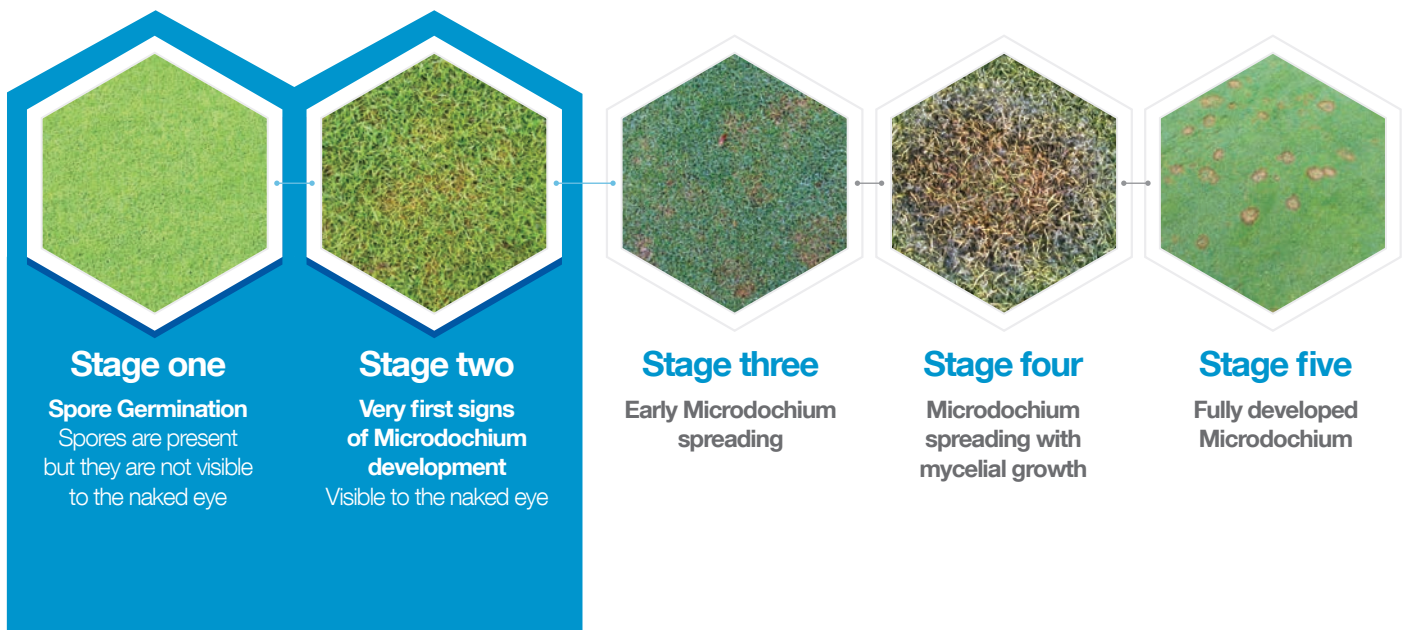
Curative applications will not cause sick tissues (already affected by the disease) to become healthy again. Curative applications can simply protect uninfected tissues.

Turf managers should be looking for early signs of disease, with preventative, rather than curative treatments. Treating disease before it occurs means that playability will not be adversely affected from the potential impact of detrimental scarring, vital to ensure the best playing surfaces throughout the year.

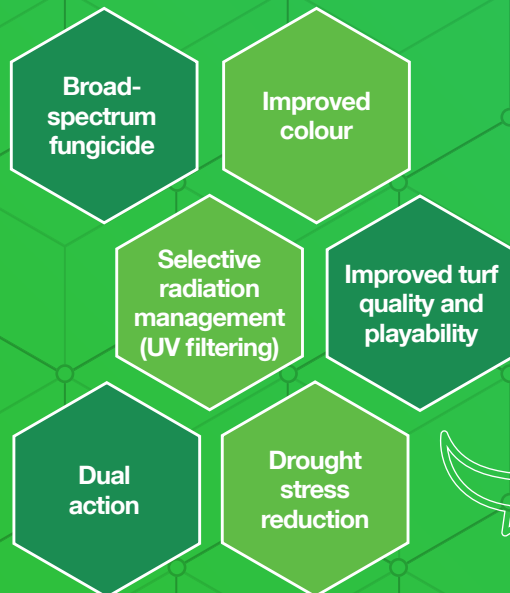
Exteris Stressgard gives both preventative and early curative disease management. The flexibility of Exteris Stressgard allows for applications throughout the year and under a wide variety of environmental conditions.

Exteris Stressgard stages of application for Microdochium

← Preventative → ← Curative → ← Eradicant →



Advantages of Stressgard Formulation Technology[®]



StressGard[™] Formulation Technology is a unique combination of active ingredients, inert ingredients and turf specific co-formulants. It is the combination of these which help the product perform so well in unique turf disease stress conditions. StressGard[™] Formulation Technology is specifically designed for turf and has been fine tuned to upgrade the performance of the product, providing superior disease management leading to visibly healthier turf.



Sam Nunn
Southwold Golf Club
Head Greenkeeper

The course gets a lot of traffic and has a high risk of microdochium patch (fusarium). It's had a history of the disease, so we need to treat preventatively for it. Due to the potential severity of the microdochium patch, Bayer gave us the opportunity to run some trials on their latest product, Exteris Stressgard, and we've seen fantastic results.

Exteris Stressgard was applied on 1st September to all greens. Then we treated the same area a month later on 1st October with Interface[®] with Stressgard[™] Formulation Technology. Chipco[®] Green was applied on 3rd November, and Interface[®] with Stressgard[™] is the last treatment in the programme.

After the first application we saw no disease - without it i'm pretty certain we would have had a disease outbreak. We saw some small signs of disease later in the season, but nothing noticeable and overall preventative treatment has been a great success with this new product. I would have expected to see something by now without using it as part of the Bayer fungicide programme.

And because this is completely new chemistry to the market, it gives greenkeepers more options and limits the chance of resistance build-up. We're losing valuable actives to the market, and the more we have at our disposal the more tools we have to alternate for effective disease prevention.



Benefits of Exteris Stressgard



Targeted Microdochium prevention



Flexible water volumes



Quick dry time & absorption



Resistance management



Reduces damage from harmful UV radiation



Provides Biotic & Abiotic stress reduction

Technical application details

Active ingredients	Dose rate	Water volume	Diseases treated	Application interval	Applications per year
Fluopyram 12.5g/L Trifloxystrobin 12.5g/L	10L/ha	200 - 600 L/ha	Microdochium Patch Dollar Spot	14 - 28 days	2



Bayer

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Exteris and Stressgard are registered Trade Marks of Bayer. Exteris Stressgard (MAPP17825) contains Fluopyram and Trifloxystrobin. Use plant protection products safely. Always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label. For further information visit www.environmentalscience.bayer.co.uk or call the Bayer Turf Solutions team – 0800 1214 9451 or 01223226500.

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