



Dedicate *FORTE*
Stressgard[®]

The DMI *you deserve*

Giving you time to actually enjoy the view



The DMI

you deserve

// Diseases Controlled

- Fairy Ring
- Dollar Spot
- Anthrachnose
- Brown Patch
- Fusarium or Microdochium Patch
- Helminthosporium disease
- Gray leaf spot
- Rust

// Areas of Use

All turf species and varieties

// Product Information

Dedicate *FORTE* Stressgard® is a new, broad-spectrum fungicide from Bayer. It is the first DMI fungicide, containing tebuconazole (240 g/L) with Stressgard Formulation Technology, and controls tough soil-borne and foliar fungal diseases in both cool and warm season turfgrass.

Dedicate *FORTE* Stressgard offers a new powerful solution for:

- // Targeted early season preventative applications for soil-borne diseases such as Fairy Ring
- // Spring knockdown of disease inoculum, assisting overall seasonal management of key diseases like Dollar Spot, Brown Patch and Anthracnose
- // Fast and thorough curative control of key summer diseases such as Anthracnose

Delivering the power and flexibility you deserve, trust Dedicate *FORTE* Stressgard to help you achieve consistent, high quality playing surfaces.

Features	Benefits
A use rate that delivers powerful control of a broad spectrum of soil borne and foliar diseases	Confidence to start the season with strong disease knockdown and protection, and fast, thorough curative control from upward systemic movement of the active ingredient
A solo active ingredient formulation of tebuconazole (Fungicide Resistance Action Committee Group 3), making it different from many other products that combine FRAC Groups 3 and 11	Brings simplification and flexibility to the building of effective fungicide programs that manage resistance, particularly to FRAC Group 11 fungicides
The first DMI fungicide registered by Bayer with Stressgard formulation technology	Increases the flexibility to build season long Stressgard fungicide programs that improve turf health and quality by mitigating abiotic and biotic stress
Tebuconazole is proven to have low growth-regulatory impact on both warm and cool-season turf	Provides confidence of summer safety, and flexibility to use when turf is under growth regulation

// A new tool for Fairy Ring management

For effective preventative management of Fairy Ring, Dedicate *FORTE* Stressgard should be applied when soil temperatures increase to an average of 13-16°C at a 5 cm depth, followed by one or more sequential applications after 28 days.

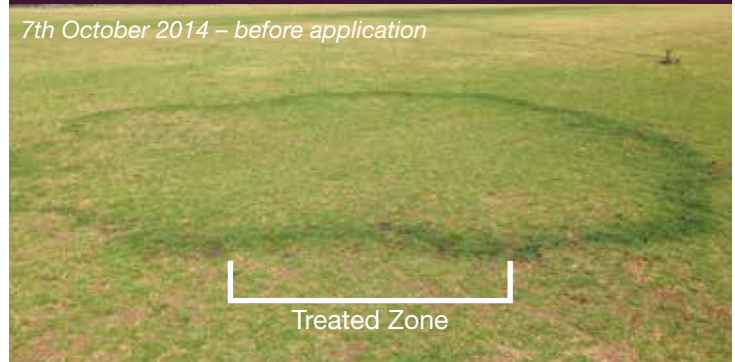
Use of Dedicate *FORTE* Stressgard in this early-season window will not only control Fairy Ring but will also reduce inoculum and future infections of a wide range of other diseases that typically don't appear until summer but become active in the early spring.

Examples of such diseases include:

- > Dollar Spot
- > Anthracnose
- > Brown Patch
- > Fusarium or Microdochium Patch
- > Helminthosporium disease
- > Gray leaf spot
- > Rust

Fairy Ring trial – two applications at a 28-day interval in the spring at 3.5 L/ha

7th October 2014 – before application



21st December 2014 – 6 weeks after the second application





The Value of DMI Fungicides

// Some turf managers have moved away from the DMIs for various reasons, such as growth regulation concerns, or due to the introduction of new mode of action fungicides, but the DMI class of chemistry in Dedicate FORTE Stressgard offers some important benefits to turf managers:

- > Broad spectrum disease control, covering both above ground and below ground diseases important across warm and cool-season turf
- > An important rotation tool for resistance management
- > Dedicate FORTE Stressgard can be used on cool-season greens throughout the year with no significant growth regulation or phytotoxicity (Fig. 1)

// Research results: Early-season root optimization

A study on a couch green in North Queensland showed the benefits on root growth of applying a program of 2 Dedicate FORTE Stressgard applications in early spring, prior to the main summer stress in that geography.

The addition of a Pythium knockdown product, Banol®, and a tool to manage plant pathogenic nematodes, Indemnify®, provided additional early season root growths benefit on a site with historic disease and nematode issues. Figure 2 shows core samples taken from the trial 8 weeks after the 2nd of two monthly applications.

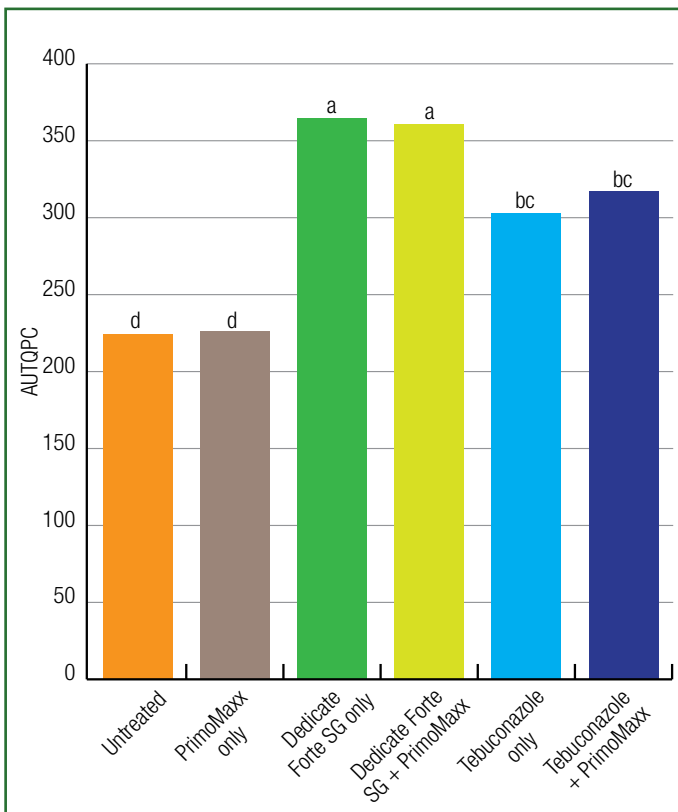


Figure 1. Dedicate FORTE Stressgard improves turf quality compared to the untreated and a generic tebuconazole on creeping bentgrass/ wintergrass plots as measured by the area under the turf quality progress curve (AUTQPC). Applications were made every 14 days, from early summer in the Northern Hemisphere, 24 May to 18 July and included Primo® Maxx at 0.4L/hectare, Dedicate FORTE Stressgard at 3.2L/hectare, and generic tebuconazole at the equivalent a.i. rate as Dedicate FORTE Stressgard. Letters are LSD (0.05) for comparing between treatments.

University of Connecticut, 2018

Figure 2. Root Growth at 8 weeks.



Untreated

Dedicate FORTE Stressgard



Dedicate FORTE Stressgard + Banol

Dedicate FORTE Stressgard + Banol + Indemnify

// Best Practice Application Guidelines

- // Dedicate *FORTE* Stressgard is a broad-spectrum fungicide which is absorbed rapidly and works systemically from within the plant. Good coverage and wetting of the foliage are necessary. Application should be made using sufficient water to ensure thorough, uniform coverage. Apply in 400-800 L water per ha for foliar or crown diseases such as Dollar Spot, Anthracnose, Brown Patch, Fusarium (Microdochium), Helminthosporium, Gray leaf spot and Rust. An application is rainfast after drying (approximately 30 minutes) and rain or sprinkler irrigation after this time should not decrease effectiveness.
 - > Use higher water rates (up to 1600 L per ha) for treatment of soil/root diseases such as Brown Patch and Fairy Ring. When targeting applications for soil-borne diseases, water in immediately to the depth of fungal activity in the root zone.
- // This product must be used as part of an integrated pest management plan that promotes plant growth and minimizes stress conditions. Apply in all cases when turf is fully established and actively growing. Applications must be applied at prescribed intervals to maintain disease control.

Apply growth regulators a minimum of 7 days before or after the application of Dedicate *FORTE* Stressgard.
- // To reduce Pythium inoculum levels and early season infection, tank mix Dedicate *FORTE* Stressgard with a Pythium active fungicide like Banol®.
- // If the site has a known history of plant parasitic nematodes, then Dedicate *FORTE* Stressgard can be tank mixed with Indemnify® for protection of the roots in spring from nematode attack.

Product Profile

Active Ingredient: Tebuconazole

Chemical Group: Group 3, demethylation inhibitor

Formulation Type: Suspension Concentrate

Pack sizes available: 1 L

Product safety

When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles and disposable mist face mask covering mouth and nose. Read the registered product label prior to use.

Re-entry Period

General public: Do not allow entry into treated areas until the spray has dried or until irrigation has been applied.

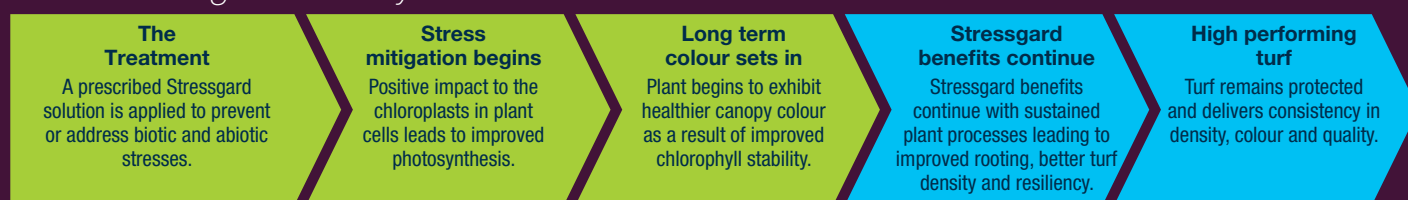
Occupational users: Do not enter treated areas until spray has dried or until irrigation has been applied. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

Regulatory information

All pesticides are regulated in Australia under the Agricultural and Veterinary Chemicals Code Act 1994 to ensure that they do not pose an unacceptable risk to human health and the environment. For information regarding the pesticide regulatory process please visit the Australian Pesticides and Veterinary Medicines Authority website at www.apvma.gov.au

- // This product may cause staining. Avoid off-target hardscapes such as cart paths, driveways, pavers, or similar materials. Rinse spray equipment thoroughly with warm water and detergent.

// The Stressgard Journey



// The first DMI fungicide in the Stressgard portfolio

Stressgard® is an advanced formulation technology developed by Bayer, proven in independent research to mitigate stress and deliver consistent turf quality for a better playing experience.

Bayer Stressgard fungicides enhance plant processes such as photosynthesis and chlorophyll production. They work on the outside and inside of the plant to protect turf from fungal attack, heat, drought, shade, traffic and excess solar radiation. Follow the above Stressgard Journey to learn how a Stressgard program can deliver long term turf health benefits.

The addition of Dedicate *FORTE* Stressgard to the Stressgard portfolio, increases the flexibility to build the most appropriate and cost effective Stressgard program that covers a wider window of the season and addresses the specific disease pressures at your facility.



ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE

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