



# Frequently asked questions about Mirage® Stressgard®

## What is Mirage Stressgard?

Mirage® Stressgard® is a 3rd generation, powerful DMI (demethylation inhibitor inhibition) formulated with Stressgard Formulation Technology. Mirage Stressgard is a systemic fungicide for foliar and root diseases, uniquely formulated to offer control of dollar spot, anthracnose, summer patch, fairy ring, brown patch, and several other key diseases. All this, plus the plant health benefits of Stressgard Formulation Technology.

## How is Mirage Stressgard different from other DMI's? Premis and Eagle no longer offered.

The core active ingredient in Mirage Stressgard – tebuconazole, offers proven control of some of the toughest turf diseases. Research has shown Mirage Stressgard is better at controlling many turf pathogens when compared to other DMIs. Additionally, Mirage Stressgard is formulated specifically for turfgrass use, unlike some crop formulations. The addition of Stressgard Formulation Technology delivers noticeable plant health benefits above and beyond other fungicides.

## Is Mirage Stressgard safe to use in the summer heat or on *Poa annua* greens?

Yes. Mirage Stressgard has been expertly crafted with Stressgard Formulation Technology which helps combat summer stresses on turf such as heat, UV radiation, oxidative stress, and other abiotic maladies. When Mirage Stressgard is used according to label recommendations, Stressgard Formulation Technology helps to reduce the risk for phytotoxicity or negative growth regulation associated with DMIs on managed turf such as *Poa annua* putting greens.

## How does Mirage Stressgard fit into my disease control program?

Mirage Stressgard provides flexibility and utility for greens, tees and fairway applications. Product use rates range

from 32–64 mL/100 m<sup>2</sup>, and the product is packaged in a convenient 2 x 5 L case size. Mirage Stressgard can be used in all situations to control foliar diseases like dollar spot and anthracnose throughout the season, and will be a first choice solution for those tough to control soil borne diseases like summer patch and fairy ring.

## Can I tank mix Mirage Stressgard with other products safely?

Yes. Mirage Stressgard is a suspension formulation that is compatible in most tank mixes including fungicides, fertilizers, and PGRs (always jar test to confirm compatibility if unsure). Unlike some other DMI fungicides, Mirage Stressgard has no label restrictions or known concerns with excessive plant growth regulation when mixed with products such as trinexapac-ethyl at moderate rates during the season.

## I like the Stressgard effects on my greens, how can I get that same plant health benefit on my fairways?

Mirage Stressgard is an economical choice for giving your fairway turf the “Stressgard Advantage”. Research has shown programs that implement Envu’s Stressgard Formulation Technology improve turf photosynthesis and chlorophyll content, selectively manage damaging UV radiation, increase turf vigour and density, and provide an overall better visual turf quality.



## How to use Mirage Stressgard

### How many consecutive apps of Mirage Stressgard can I make before rotating chemistries?

With regard to fungicide resistance management, no more than two sequential applications of Mirage Stressgard should be made before using a different mode of action in accordance with FRAC recommendations.

### How many times can I apply Mirage Stressgard per year?

The maximum annual use rate for Mirage Stressgard is 128 mL/100 m<sup>2</sup>.

### Should I water in Mirage Stressgard when trying to control summer patch?

Yes. As with any fungicide application targeting root-associated diseases such as summer patch, fairy ring, take-all patch etc., higher water volumes are required to ensure the product reaches the area in which the fungi are attacking the plant. Normally, at least 5 gal of water volume per 1,000 ft<sup>2</sup> are recommended for summer patch applications, or a cycle of irrigation delivering between 0.5–1.25 cm of water immediately after spraying, before the product dries on the plant.

### Will treatments that are watered in for root pathogens (i.e. Summer Patch) still provide effective control of foliar diseases such as dollar spot?

Yes. Since Mirage Stressgard is an acropetal systemic fungicide, the watered in product will be taken in by the roots and move upward within the plant via the xylem. This will allow new growth including shoots, stems and leaves to be adequately protected from foliar diseases for a period of time until significant tissue removal occurs from several mowing events.

### I have experienced issues with DMI resistant dollar spot. Should I use Mirage Stressgard?

Mirage Stressgard contains a 3rd generation DMI – tebuconazole which shows strong activity across a range of different turf diseases. If resistance is present, a rotational program using alternative modes of action should be incorporated to best manage populations of DMI resistant pathogens. DMI resistance is quantitative, meaning it is expressed in the pathogen population as reduced sensitivity or a shortening of the interval of control. Remember, if DMI resistance is confirmed for one pathogen, the class of chemistry can still be used to control other pathogens, and can effectively be used to manage many other important disease complexes when needed.

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