



# Mirage STRESSGARD™

## Frequently Asked Questions

**Q. What is Mirage, and what does it control?**

A. Mirage Stressgard is the newest addition to the Stressgard Formulation Technology family. Mirage Stressgard is a 3<sup>rd</sup> generation, powerful DMI (demethylation inhibitor inhibition). Mirage Stressgard is a systemic root and foliar disease fungicide, 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 equals the ultimate peace of mind in disease control.

**Q. How is it different from other DMI's i.e. Banner Maxx, Premis, or Eagle**

A. The core active ingredient in Mirage - tebuconazole, offers proven control of some of the toughest turf diseases. Research has shown Mirage is better at controlling many turf pathogens when compared to other DMIs. Additionally, Mirage is uniquely 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.

**Q. How does Mirage fit into my disease control program**

A. Mirage 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 5L case size. Mirage 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.

**Q. Can I tank mix Mirage with other products safely?**

A. Yes. Mirage 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 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.

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

A. Yes. Mirage 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 is used according to label recommendations, Stressgard Formulation Technology helps to dramatically reduce the risk for phytotoxicity or negative growth regulation associated with other DMIs on managed turf such as *Poa annua* putting greens.

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

A. Mirage is an economical choice for giving your fairway turf the "Stressgard Advantage". Research has shown programs that implement Bayer'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.

**Q. How many consecutive apps of Mirage can I make before rotating chemistries?**

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

**Q. How many times can I apply Mirage per year?**

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

**Q. Should I water in Mirage when trying to control Summer Patch?**

- A. 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.

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

- A. Yes – since Mirage 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.

**Q. I have experienced issues with DMI resistant dollar spot. Should I use Mirage?**

- A. Mirage contains a 3<sup>rd</sup> 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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