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An integrated approach to Anthracnose control





Fast action to tackle Anthracnose threat

New trials have shown the combination of fast action fungicide and liquid fertilizer treatments is the optimum way to tackle the increasing threat of Anthracnose and prevent damage to turf playing surface quality.

Anthracnose disease pathology

Two forms of Anthracnose (Colletotrichum graminicola) frequently attacks turf quality:

Foliar blick Infects leaves, causing tan/vellow irregular patches. Most common in summer and can be confused with symptoms of drought. Favoured by hot, dry weather.

Principally attacks the crown, but causes older leaves to yellow and die. Young leaves may go red. Used to be more prevalent in autumn and winter but is now regularly seen throughout the summer, especially during periods of heat and drought stress.

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The severity of Anthracnose disease attack has increased significantly over the past 10 years. Anthracnose is one of the most difficult turf diseases to control. The spread of infection can be very quick.

The damage to fine turf can be extensive and cause serious loss in surface quality - including smoothness and turf cover.

Increasing periods of prolonged hot dry weather are more likely to trigger outbreaks.

Reductions in nutritional inputs may have made turf plants more susceptible to disease.

To improve plant health and its ability to withstand disease attacks

Anthracnose high risk situations:



What can we do to help? - Relieve environmental stress



Alleviate compaction and reduce excess thatch

Ensure adequate moisture for healthy plant growth without



Provide adequate and appropriate nutrition

Encourage less susceptible turf species such as fescue and bent grasses



Promote plant health and vigour

A proactive integrated approach to Anthracnose turf disease management can reduce the risk of disease outbreak. Use the GreenCast website disease forecasting system and an iTurf programme to identify periods of Anthracnose foliar blight risk to time activities and preventative applications more effectively www.greencast.co.uk



Areas of high wear and compaction











Rapid response

NEW Research

Replicated trials at the STRI - and supported by R&D at ICL and Syngenta research facilities has demonstrated that, where there is a risk of

Anthracnose attack, a rapid response with fast uptake fertilizer and fungicide inputs can effectively minimise damage from infection.



Comparing results from a number of fungicide and fertilizer inputs, the trials highlight the synergistic effects of fast-acting Greenmaster Liquid, Spring and Summer and Greenmaster Liquid, NK fertilizers 80 l/ha and rapid uptake Banner Maxx 3 l/ha.



Greenmaster liquids and Banner Maxx reduced the level of Anthracnose infection and improved turf quality. Used together, the results were even greater control of disease (above) and improvements in turf health and quality (right).











Why Greenmaster Liquid?	Why Banner Maxx?
TMax formulation spreads and sticks on the leaf. Enables better movement of nutrients into the leaf and within the plant.	Rapid systemic movement within the plant to the point of infection
Movement of nutrients into the leaf through small, but constantly open, transcuticular pores; more efficient than standard liquids relying on stomatal entry to the leaf.	Proven activity on Anthracnose
Uptake by both leaf and root even in variable environmental conditions	Maxx formulation provides very fast uptake into the plant leaf
Helps to make previously locked-up nutrients available	Works effectively even in cool conditions when plants are growing less actively
Contains trace elements and balanced nutrients to enhance plant health and to reduce plant stress	Also targets a broad-spectrum of other turf pathogens, to relieve stress on plants and reduce risk of disease outbreak.

Products have been tested for biological and physical compatibility in a tank mix.

Combination of Greenmaster Liquid and Banner Maxx are shown to have a synergistic effect for the enhanced control of Anthracnose.

Why are we seeing improved results with combined fast acting nutrition and fungicide applications?

- A healthy plant with correct nutritional status promotes better uptake of active ingredient. A healthy plant is also able to recover from disease faster and reduce scarring
- Providing instant relief of nutritional stress promotes healthier turf, which is able to withstand the reduced pressure of pathogen attack as a result of the fungicide treatment
- Increased chlorophyll levels improve the grass plants ability to produce and store carbohydrates in stressful situations

- When disease is active, products have to work quickly before damage occurs in the turf sward
- The TMax and Maxx technologies of Greenmaster Liquid and Banner Maxx help both products to work guickly and more efficiently
- The two products together improve turf health, including chlorophyll content, turf colour and, ultimately, turf quality

Recommendations

Recommendations timeline

Mid-July – early August (or at first signs of disease)

> Greenmaster Liquid* -Spring and Summer (80 l/Ha)

> > Tank mix

Banner Maxx (3 I/Ha)

Banner Maxx (3 I/Ha)

Tank mix

*This can be adjusted as appropriate within the label rates of 40-120 l/ha according to nutrition status.

Greenmaster Liquid

Water volume: 400 l/ha

Nozzle recommendation: Syngenta Turf Foliar Nozzle



For optimal turf health maintain adequate appropriate nutrition through the season using the iTurf programme in conjunction with an ICL soil analysis.

Further info on iTurf programmes and soil analysis can be found on www.icl-sf.co.uk

21 – 28 days after first application

Greenmaster Liquid* -Spring and Summer (80 I/Ha)

35 - 42 days after first application

> Greenmaster Liquid* N – K (80 I/Ha)

Banner Maxx



To optimise Banner Maxx application time use the GreenCast disease forecasting system on www.greencast.co.uk



