

New INSTRATA for three-way action turf disease control

**NEW
FOR 2009**

PRODUCT TECHNICAL INFORMATION SHEET

Spring 2009

In Brief

- **INSTRATA is a robust new high performance turf fungicide from Syngenta, with genuine contact and systemic activity**
- Multi-site combination gives protective, curative and eradicant activity across all key turf diseases
- **Includes the exciting NEW FLUDIOXONIL - the first new contact active for over 20 years**
- Recommended for all stages of disease attack, at any time of the year
- **The first turf fungicide to combine three active ingredients**



The unique three-way mode of action of INSTRATA gives powerful protection from disease infection, plus essential curative and eradicant activity if disease symptoms have already broken out.

NEW AI for turf

Fludioxonil
– contact –

Brand new broad-spectrum contact active for turf

Outstanding long-term efficacy

Derived from naturally occurring compounds

Protects on the leaf, in thatch and at soil surface

Exceptional long lasting residual control

Propiconazole
– systemic –

Protective, curative and eradicant activity

Rapid uptake into plant leaf

Systemic movement to new leaf growth

Stops fungal development within the plant leaf

Chlorothalonil
– contact –

Best proven multi-site contact activity

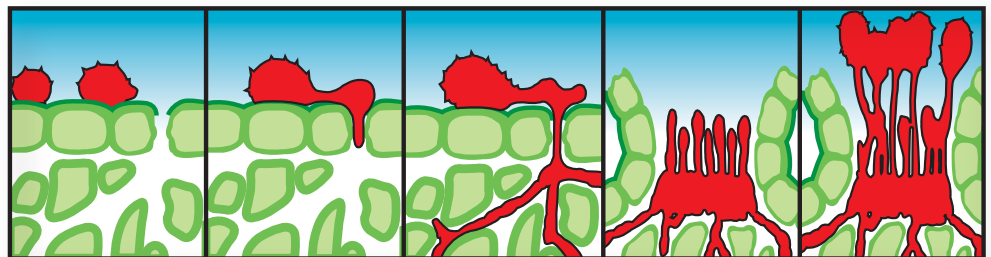
Broad spectrum activity against turf disease

Controls disease on the leaf surface

Three Actives for Three-way Action

INSTRATA contains three different active ingredients, each selected to provide complementary activity in tackling key turf diseases throughout the year.

Spore germination Penetration Mycelial growth Blistering Sporulation



PROTECTANT

CURATIVE

ERADICANT

Proven performance

INSTRATA is proven in independent UK trials to give more effective and more persistent control of Fusarium Patch than iprodione or myclobutanil – up to 45% better. The result is consistently better turf quality up to six weeks after application. Greater Anthracnose control with INSTRATA improved over winter turf quality by up to 20%, compared to iprodione.

The triple action of INSTRATA, including two multi-site contact active ingredients, will significantly reduce the risk of fungicide resistance developing and will prove an important element of any Integrated Turf Management programme.

High Performance for high quality turf

INSTRATA is a high performance product especially well suited to tackling the specific high disease pressure on golf courses and bowling greens.

Rates of use

Apply INSTRATA at an application rate of 9 litres per hectare, using a water volume of 500 – 1000 l/ha.

Application timing

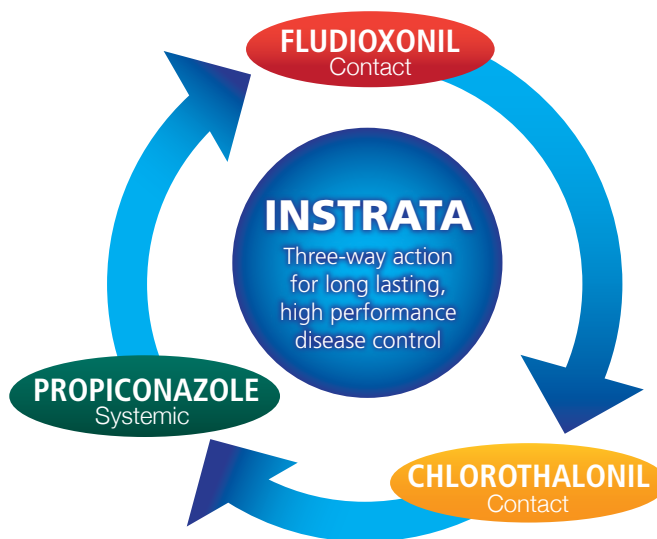
For best results apply INSTRATA as a preventative application when conditions indicate a high risk of disease infection – use www.greencast.co.uk to forecast disease pressure. Alternatively, spray at the first signs of disease presence.

INSTRATA can be used at all times of the year, with a minimum 14 day interval between applications. Use a maximum of three applications per year, as part of an Integrated Turf Management programme.

Application technique

INSTRATA may be applied by both boom and walkover sprayers. Use a medium to fine spray pattern, to achieve good coverage and spray retention on the leaf. LERAP B.

INSTRATA is approved for use on all areas of the golf course, including fairways, tees and greens – along with fine turf bowling greens.



Disease	Application rate	Turf areas
Fusarium Patch, Anthracnose, Dollar Spot, Brown Patch	9 l/ha	All golf course greens, tees and fairways + bowling greens

New products for turf

INSTRATA is the latest new product introduced by Syngenta for the UK golf and bowls turf managers. Already well proven for disease control on leading golf courses in the US, INSTRATA has successfully undergone the rigorous safety, environmental and efficacy evaluation required for UK registration.

INSTRATA is the latest in a range of new products being developed by Syngenta specifically to meet the demands of UK turf managers for reliable and cost effective solutions to create high quality turf.

INSTRATA brings a new dimension for turf disease control:

Works on all stages of disease activity

Can be used at any time of the year

Controls key turf diseases

Essential contact and systemic action