# NEW INSTRATA ELITE TO GET MORE FROM YOUR FUNGICIDE PROGRAMME

CURATIVE/PROTECTANT

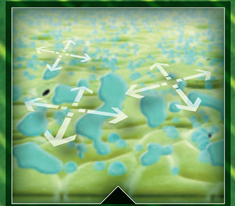
CONTACT/SYSTEMIC

**2**
- » ACTIVES
- » MODES OF ACTION
- » APPLICATIONS

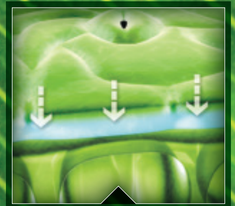
INSTRATA ELITE CONTAINS A BRAND NEW ACTIVE FOR TURF. DIFENOCONAZOLE, IN COMBINATION WITH FLUDIOXONIL, THE TWO ACTIVES HAVE COMPLEMENTARY ACTIONS TO TACKLE DISEASE MORE EFFECTIVELY.

# LOCK & FLOW GIVES PROTECTION OUTSIDE AND IN

THE UNIQUE PROPERTIES OF INSTRATA ELITE RAPIDLY BIND THE ACTIVES ONTO THE LEAF WAX LAYER. WHEN INSTRATA ELITE IS APPLIED, IT QUICKLY SPREADS AND LOCKS ONTO THE WAX LAYER OF THE PLANT SURFACE. THIS PROVIDES A PROTECTIVE BARRIER TO THE LEAF AND DESTROYS ANY SURFACE DISEASE SPORES PRESENT AT APPLICATION



INSTRATA ELITE rapidly locks onto leaf wax providing a protective barrier which is rainfast in 30 minutes.



After locking onto the wax around 20% of the active ingredient rapidly moves into the leaf. This provides an immediate curative effect-attacking any disease that is present within the plant. The remaining difenoconazole stays within the leaf wax and provides a reservoir of active.



The active in the surface reservoir flows into the leaf over time – replenishing active that has moved systemically to new growth or been degraded. This maintains a constant active concentration within the leaf delivering longer lasting OUTSIDE-IN PROTECTION.

## RAINFAST PROTECTION

» SAFELY LOCKED ONTO THE LEAF WAX, WITHIN 30 MINUTES OF APPLICATION INSTRATA ELITE IS UNAFFECTED BY RAIN OR IRRIGATION WASH-OFF. THE LOCK & FLOW OF INSTRATA ELITE MAINTAINS LONGER EFFECTIVE PROTECTION OUTSIDE AND IN.

Instrata® Elite

syngenta®

# APPLICATION ON TARGET

INSTRATA ELITE has been tried, tested and approved to deliver great results at a flexible range of water application volumes, from 125 to 500 l/ha. You can select the water volume to optimise performance of tank-mix partners, including some fertilisers, growth regulators or wetting agents, confident in the performance of INSTRATA ELITE.

## TYPICAL OPTIMUM APPLICATION RECOMMENDATIONS:

| Water volume | Syngenta XC Nozzle | | Sprayer settings |
|---|---|---|---|
| 200 – 400 l/ha |  | 025 | Speed: 3 – 4 km/hr |
| 200 – 400 l/ha | | 04 | Speed: 5 – 7 km/hr |

GreenCast® Turf App

USE THE GREENCAST TURF APP TO CHECK THE BEST RECOMMENDATIONS FOR EVERY APPLICATION, AND RECORD ALL YOUR ACTIONS.

Instrata® Elite

| | |
|---|---|
| ACTIVES | DIFENOCONAZOLE + FLUDIOXONIL |
| MODE OF ACTION | CONTACT + SYSTEMIC |
| DISEASE ACTIVITY | CURATIVE + PROTECTANT |
| APPLICATION RATE | 3 L/HA |
| NO. OF APPLICATIONS | TWO PER YEAR |
| AREAS COVERED | MANAGED AMENITY TURF |
| APPLICATION VOLUME | 125 – 500 L/HA |

NEW INSTRATA ELITE DUAL ACTION

# OUTSIDE IN PROTECTION

CONTACT and SYSTEMIC action against Microdochium




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## MORE THAN A CONTACT

With INSTRATA ELITE you get Syngenta's proven contact* activity – targeting spores in the thatch and at the soil surface, as well as on the leaf. That can quickly reduce disease pressure during high risk periods.



**ALL ROUND PROTECTION**
ON LEAF, IN LEAF AND IN ORGANIC MATTER



**UPTAKE TO NEW GROWTH**
UPTAKE FROM LEAF, CROWN AND ROOT

INSTRATA ELITE can not only be taken up by leaves and the crown but also by the roots. So any active applied that finds its way to the rootzone can be taken up and is not lost.

## ACTS ON ALL STAGES OF THE DISEASE CYCLE.

### SPORE GERMINATION



TARGETS SPORES BEFORE THEY CAN GERMINATE

OPTIMUM TIMING TO PREVENT DISEASE INFECTION

PREVENTATIVE

### PENETRATION



TARGETS MYCELIA ON THE SURFACE TO STOP INFECTION GETTING INTO THE LEAF

OPTIMUM TIMING TO PREVENT DISEASE INFECTION

PREVENTATIVE

### MYCELIAL GROWTH

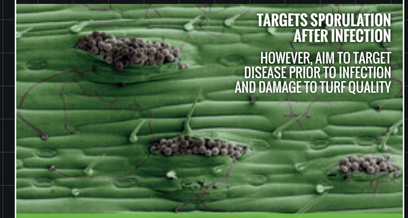


TARGETS MYCELIA INSIDE THE LEAF TO STOP DISEASE SPREAD

TURF STRESS BEGINS, BUT DISEASE STOPPED BEFORE VISIBLE DAMAGE IS DONE

CURATIVE

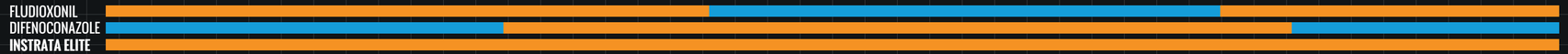
### SPORULATION



TARGETS SPORULATION AFTER INFECTION

HOWEVER, AIM TO TARGET DISEASE PRIOR TO INFECTION AND DAMAGE TO TURF QUALITY

ANTI-SPORULANT




Targeting disease at more points through the life-cycle gives greater flexibility in application timing to hit infection break outs.

For optimum protection of turf quality INSTRATA ELITE should be applied before visible symptoms are evident, through to first signs of infection.

USE GREENCAST, INDICATOR GREENS AND HISTORIC EXPERIENCE TO HIGHLIGHT RISK PERIODS AND TAILOR APPLICATION TIMING.

HIGHLY EFFECTIVE

LOWER EFFECT

## BROAD SPECTRUM DISEASE CONTROL

INSTRATA ELITE is highly effective against all key turf diseases to protect plant health and playing surface quality.

**ANTHRACNOSE**
COLLETOTRICHUM GRAMINICOLA
★★★★

**BROWN PATCH**
RHIZOCTONIA SOLANI
★★★★★

**DOLLAR SPOT**
SCLEROTINIA HOMOEOCARPA
★★★★★

**MICRODOCHIUM**
MICRODOCHIUM NIVALE
★★★★★

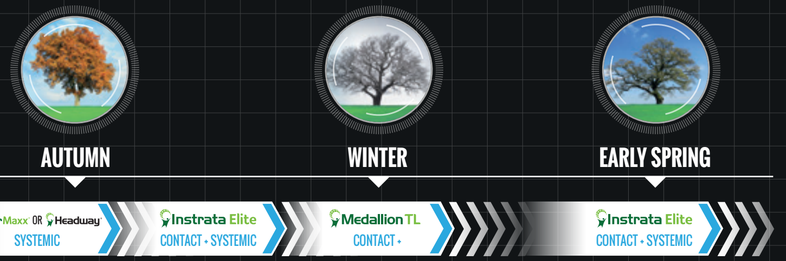
★★★★★ HIGHEST LEVEL OF ACTIVITY | ★ LOWEST LEVEL OF ACTIVITY

Now APPROVED for TWO applications per season on:

- Golf courses and amenity turf
- Sports turf stadia and pitches

## PROGRAMMED PERFORMANCE

The fast two-way action of INSTRATA ELITE can be used all year around. However, fitting into a proactive fungicide programme, to protect turf quality, the unique properties of INSTRATA ELITE perfectly match the demands for disease control from mid to late autumn and through early spring. Example autumn programme:




## PROVEN PERFORMANCE

The consistently reliable performance of INSTRATA ELITE has been proven by over 60 trials across nine European countries – including STRI, Syngenta and on golf courses across the UK.

VISIT THE GREENCAST WEBSITE TO VIEW THE FULL TRIALS RESULTS DOSSIER AND READ THE EXPERIENCES OF USER TRIALS.

## LOW ACTIVE – HIGH PERFORMANCE

INSTRATA ELITE has the balanced active loading of 240 g/ha of difenoconazole and 240 g/ha of fludioxonil per hectare.




That means applying just 480 g/ha of the combined two highly effective actives, compared to 5000 g/ha with a single active application of iprodione.

## RESISTANCE MANAGEMENT

The two actives in INSTRATA ELITE are from entirely different FRAC fungicide groups and work in different ways on different stages of disease life-cycle.

| | FRAC class | |
|---|---|---|
| Difenoconazole | G1 - DMI-fungicides (DeMethylation Inhibitors | 3 |
| Fludioxonil | E2 - PP-fungicides (PhenylPyrroles) | 12 |

Used as part of a proactive fungicide programme, in conjunction with other Syngenta products with alternative modes of action, the great effects of INSTRATA ELITE can be preserved for the future.

Instrata Elite

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