



Patriot[®]

Effective inside – out disease protection in all weather conditions

Product overview

Patriot[®] is a broad spectrum fungicide containing 100 g/L of the active ingredient Trifloxystrobin and 200 g/L Tebuconazole. It is specifically registered for the control of Anthracnose, Brown Patch, Winter Fusarium, Helminthosporium diseases (including White Helmo), Leptosphaerulina, Curvularia, Dollar Spot and ERI (Ectotrophic Root Infecting Fungi) diseases.

Mode of action

GROUP **3 | 11** FUNGICIDE

Tebuconazole, one the active ingredients in Patriot[®], is a systemic fungicide that once absorbed by roots and leaves moves upwards within the plant. Tebuconazole possesses curative, protective and eradicant activity when controlling turfgrass fungi. Tebuconazole is a Group 3 fungicide. It works in controlling turf pathogens by disrupting the fungi's membrane function. It is classified as a DMI inhibitor as it stops the demethylation step in the biosynthesis of ergosterol, a vital component of cell walls in many fungi.

Trifloxystrobin is the other active ingredient in Patriot[®]. Trifloxystrobin is characterized by its ability to strongly bond onto plant surfaces through penetration of the waxy layers. This forms a secure reservoir of fungicide to provide long-lasting, weather-protected disease control. Trifloxystrobin works by interfering with respiration in plant pathogenic fungi. It is a potent inhibitor of fungal spore germination and mycelial growth.

How to get the best results from Patriot[®]

Good turf disease control requires good coverage. Application should be made using sufficient water to ensure thorough coverage: 800 L - 1,600 L of water per hectare. For preventative control apply Patriot[®] on a 21 - 28 day interval when conditions are favourable for disease development.

For curative control apply Patriot[®] on a 14 - 21 day interval. For brown patch and ERI disease control, apply sufficient irrigation quickly following irrigation to wash Patriot[®] into the crown and upper root zone (3 - 6 mm of irrigation). For ERI disease control, make monthly preventative applications in the three months preceding the disease season (usually early Spring).

From a resistance management perspective, do not apply more than two consecutive sprays of Patriot[®] unless mixed with a protectant fungicide from group 14, 28, M2, M3, M4 or M5.

Patriot[®] acts very rapidly and where the turf is of a low nutritional status, a slight yellowing may be seen. This will be corrected by nitrogenous fertiliser applications. Where possible, it is recommended that the fertiliser program should precede the fungicide application.

Features

- Trifloxystrobin has high rainfastness capabilities
- Broad spectrum of disease activity
- Registered for control of *Leptosphaerulina* and *Curvularia*
- Registered for control of ERI diseases
- Provides contact, translaminar, mesosystemic and systemic activity
- Contains two unique active ingredients for turf with differing modes of action.

Benefits

- Regardless of weather conditions, disease control is assured
- Registered for use against 8 different turf diseases
- Limited options currently in the market to control these diseases
- Has strong activity on ERI, particularly when applied as a preventative program
- Inside and out protection
- Ideal for fungicide resistance management and enhanced disease control.

Use rates

Pathogen	Application rate	Water rate	Key comments
Brown Patch (<i>Rhizoctonia solani</i>)	2 L/ha (20 mL/100 m ²)	800 - 1600 L/ha (8 - 16 L/100 m ²)	Apply sufficient irrigation quickly following irrigation to wash Patriot into the crown and upper root zone (3 - 6 mm of irrigation)
Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	3 L/ha (20 mL/100 m ²)		For preventative control apply on a 21 - 28 day interval when conditions are favourable for disease development. To control existing infections apply on a 14 - 21 day interval
Winter Fusarium or Fusarium patch (<i>Microdochium nivale</i>)	2 L/ha (20 mL/100 m ²)		
Anthracnose (<i>Colletotrichum graminicola</i>)	2 L/ha (20 mL/100 m ²)		Make monthly preventative applications from December to March
Secondary Diseases (<i>Leptosphaerulina</i> spp., <i>Curvularia</i> spp.)	2 L/ha (20 mL/100 m ²)		
Black and white Helminthosporium (<i>Bipolaris</i> spp., <i>Drechslera</i> spp., <i>Exserohilum</i> spp.)	2 L/ha (20 mL/100 m ²) 280 mL per bowling green		Make monthly preventative applications in the three months preceding the disease season (usually early Spring)
ERI (<i>Ecotrophic Root Infecting Fungi</i>)	2 L/ha (20 mL/100 m ²)		

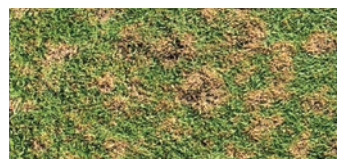
Diseases controlled by Patriot®



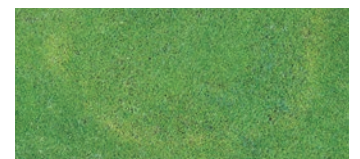
Black Helminthosporium



White Helminthosporium



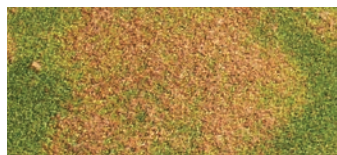
Dollar Spot



Brown Patch



Winter Fusarium



Anthracnose



ERI



Curvularia and Leptosphaerulina

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For Customer Enquiries: **1800 4 ADAMA**