



# Patriot<sup>®</sup>

## Effective inside – out disease protection in all weather conditions

### Product overview

Patriot<sup>®</sup> 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<sup>®</sup>, is a systemic fungicide that once absorbed by roots and leaves moves upwards within the plant. Tebuconazole possesses curative, protective and eradicator 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<sup>®</sup>. 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<sup>®</sup>

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<sup>®</sup> on a 21 - 28 day interval when conditions are favourable for disease development.

For curative control apply Patriot<sup>®</sup> on a 14 - 21 day interval. For brown patch and ERI disease control, apply sufficient irrigation quickly following irrigation to wash Patriot<sup>®</sup> 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<sup>®</sup> unless mixed with a protectant fungicide from group 14, 28, M2, M3, M4 or M5.

Patriot<sup>®</sup> 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 <sup>2</sup> )	800 –1600 L/ha (8 - 16 L/100 m <sup>2</sup> )	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 <sup>2</sup> )		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 <sup>2</sup> )			
Anthracnose ( <i>Colletotrichum graminicola</i> )	2 L/ha (20 mL/100 m <sup>2</sup> )			
Secondary Diseases ( <i>Leptosphaerulina</i> spp., <i>Curvularia</i> spp.)	2 L/ha (20 mL/100 m <sup>2</sup> )			
Black and white Helminthosporium ( <i>Bipolaris</i> spp., <i>Drechslera</i> spp., <i>Exserohilum</i> spp.)	2 L/ha (20 mL/100 m <sup>2</sup> ) 280 mL per bowling green			Make monthly preventative applications from December to March
ERI ( <i>Ectotrophic Root Infecting Fungi</i> )	2 L/ha (20 mL/100 m <sup>2</sup> )			Make monthly preventative applications in the three months preceding the disease season (usually early Spring)

## Diseases controlled by Patriot®



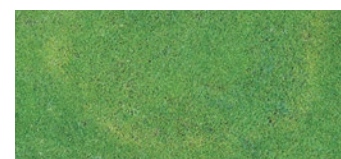
Black Helminthosporium



White Helminthosporium



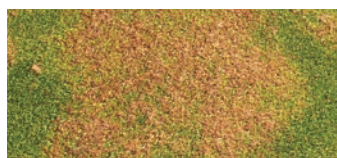
Dollar Spot



Brown Patch



Winter Fusarium



Anthracnose



ERI



Curvularia and Leptosphaerulina



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