



# **TOMBSTONE DUO**

FUNGICIDE

*Strong Disease Protection in all weather conditions*

## Product Overview

- **Tombstone Duo** is a broad spectrum fungicide containing the active ingredients Trifloxystrobin (100g/L) and Tebuconazole (200g/L).
- It is 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.
- **Tombstone Duo** is an SC formulation.
- **Tombstone Duo** is manufactured in Australia.

## Key Features of ProForce Tombstone Duo

- Provides curative, protectant and eradicant activity.
- Excellent rainfast properties. Works in all weather conditions.
- Broad spectrum of activity. Registered for the control of 9 turf diseases, including foliar and root pathogens.
- Registered for the control of Leptosphaerulina and Curvularia. There are limited registered options for these pathogens.
- Registered for the control of ERI diseases, both from a curative and preventative basis.
- Provides contact, translaminar, mesosystemic and systemic activity, providing inside-out disease protection.
- Contains two strong active ingredients for turf, with differing modes of action.

## Mode of Action

|       |   |    |           |
|-------|---|----|-----------|
| Group | 3 | 11 | Fungicide |
|-------|---|----|-----------|

Tebuconazole, one active ingredient in **Tombstone Duo**, is a systemic fungicide that once absorbed by roots and leaves moves upwards (acropetal) 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 molecule in **Tombstone Duo Fungicide**. Trifloxystrobin has the 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.

  
SPECIALTY PRODUCTS

## Use Rates

| Pathogen  | Application Rate  | Water Rate  | Key Comments  |  |
|---|---|---|---|--|
| <b>Brown Patch</b><br>( <i>Rhizoctonia solani</i> )   | 2L/ha (20mL/100m <sup>2</sup> )                             | 800 – 1600L/ha<br>(8-16L/100m <sup>2</sup> )  | Apply sufficient irrigation quickly following irrigation to wash <b>Tombstone Duo</b> into the crown and upper root zone (3-6mm of irrigation). |  |
| <b>Dollar Spot</b><br>( <i>Sclerotinia homoeocarpa</i> )  | 3L/ha (20mL/100m <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. |
| <b>Winter Fusarium or Fusarium patch</b> ( <i>Microdochium nivale</i> )   | 2L/ha (20mL/100m <sup>2</sup> )                             |   |   |  |
| <b>Anthracnose</b><br>( <i>Colletotrichum graminicola</i> ).  | 2L/ha (20mL/100m <sup>2</sup> )                             |   |   |  |
| <b>Secondary Diseases</b><br><i>Leptosphaerulina</i> spp, <i>Curvularia</i> spp.                                  | 2L/ha (20mL/100m <sup>2</sup> )                             |   | Make monthly preventative applications from December to March.  |  |
| <b>Black and white Helminthosporium</b> ( <i>Bipolaris</i> spp., <i>Drechslera</i> spp., <i>Exserohilum</i> spp.) | 2L/ha (20mL/100m <sup>2</sup> )<br>280mL per bowling green. |   |   |  |
| <b>ERI</b><br>(Ectotrophic Root Infecting Fungi)  | 2L/ha (20mL/100m <sup>2</sup> )                             | Make monthly preventative applications in the three months preceding the disease season (usually early Spring). |   |  |

## How to get the best results from ProForce Tombstone Duo Fungicide

- Good turf disease control requires good coverage. Application should be made using sufficient water to ensure thorough coverage: 800L – 1,600L of water per hectare.
- For preventative control apply **Tombstone Duo** on a 21-28 day interval when conditions are favourable for disease development. For curative control apply **Tombstone Duo** on a 14 - 21 day interval.
- For brown patch and ERI disease control, apply sufficient irrigation quickly following irrigation to wash **Tombstone Duo** into the crown and upper root zone (3-6mm 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 **Tombstone Duo** unless mixed with a protectant fungicide from group **14, 28, M2, M3, M4 or M5**.
- **Tombstone Duo** 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 a fertiliser program should precede the fungicide application.

