

Improves putting green health during periods of stress

Best uses

Weekly or biweekly applications on greens for preventative control of summer decline, basal rot and foliar anthracnose along with *Pythium* blight and root-infecting *Pythium* spp.

Key strengths

Improved putting green performance and plant health benefits during periods of high stress.

Signature XTRA Stressgard[®] fungicide is a true systemic fungicide that enhances plant health and minimizes stress from both abiotic and biotic stressors. Signature XTRA Stressgard fungicide uses a new, improved formulation of fosetyl-Al. Fosetyl-Al is the same active ingredient used in Chipco[®] Aliette Signature fungicide that has provided over 20 years of proven *Pythium* control and consistently high turf-quality ratings along with no documented reports of resistance development in the field.

Signature XTRA Stressgard fungicide delivers enhanced plant health benefits and flexible use patterns, even under the most severe environmental conditions. It's often used as the cornerstone for anthracnose management programs on annual bluegrass and creeping bentgrass golf greens.

Attributes of Signature XTRA Stressgard fungicide

- Enhanced Stressgard[®] Formulation Technology for proven plant health effects:
 - Recovery from mechanical damage (i.e., aeration, scalping)
 - Healthier roots, leading to better water and nutrient utilization
 - Induced systemic resistance
- Supports earlier spring greenup, turf fill-in, improved colour and density
- Protects the plant from the adverse effects of UV radiation
 - Increases photosynthesis and chlorophyll production
- Drought stress resistance – increases internal turgor pressure and prevents electrolyte leakage, reducing drought-related turf losses by improving plant vigor at the cellular level

- Wider application window – flexible rate structure allows for applications on 7- to 21-day intervals
- Upward and downward systemic mobility
- Increases root mass even in high temperatures (documented up to 35°C, showing a 73% increase in root mass compared to untreated)

Solutions for tough diseases

- Signature XTRA Stressgard fungicide tank mixes are effective for:
 - Anthracnose and summer decline management
 - Improving turf quality under situations of high- and low-intensity light stress
- Provides preventative control of *Pythium* blight and *Pythium* root rot



Active ingredients

aluminum tris
(O-ethyl phosphonate)
[fosetyl-Al] (60%)



FRAC code

33 (phosphonates)



Systemicity

systemic
penetrant



Formulation

water dispersible
granule



Signal word

caution



Packaging

case = 2.5 kg x 4

How to use Signature XTRA Stressgard® fungicide

Alone | Signature XTRA Stressgard fungicide should be used to improve plant health and mitigate summer decline on a 7- to 14-day interval during periods of abiotic stress. During periods of high disease pressure, tank-mixing with an additional mode of action is recommended.

For summer decline and anthracnose control | Tank-mix Signature XTRA Stressgard fungicide with Mirage® Stressgard® fungicide and rotate with Signature XTRA Stressgard fungicide + Daconil 2787® fungicide tank mix for optimal summer decline management and anthracnose control. If there is a history of summer patch, replace Daconil 2787 fungicide with fluoxastrobin.

For prevention of foliar Pythium diseases | Apply Signature XTRA Stressgard fungicide preventatively on a 7- to 14-day interval during periods of weather conducive for disease development.

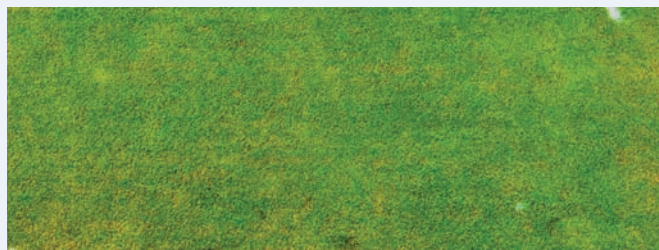
For the prevention of root-infecting *Pythium* spp. | Apply at higher water volumes or irrigate in with 2.5 mm of water for root-infecting *Pythium* spp. Tank-mix with Banol® fungicide for early season applications. North Carolina State University and the “Chemical Control of Turfgrass Diseases 2024” publication suggests that Banol fungicide and Signature XTRA Stressgard fungicide can be part of a rotational program to control Pythium root dysfunction of creeping bentgrass caused by *Pythium volutum*.

Tank-mix compatibility | We recommend incorporating Signature XTRA Stressgard fungicide last into a tank mix after all other products have been added to the tank. Please refer to our Suggested Mixing Sequence Guide for Canadian Turf Products for more details. The guide can be found in the Golf Resources tab at ca.envu.com.

Signature XTRA Stressgard fungicide rate chart

Use rate (g/100 m ²)	Recommended intervals	Coverage per container (100 m ²)	Coverage per container (Ha)	Coverage per container (acre)	Maximum application (per year)
60	7	42	0.42	1.00	10
120	7-14	21	0.21	0.51	5
180	7-14	14	0.14	0.34	4

Creeping bentgrass treated with Signature XTRA Stressgard fungicide under traffic stress and 60% shaded conditions. Trial conducted at Rutgers University in 2018.



Signature XTRA Stressgard fungicide (120 g for 14 days)
Photo: Envu



Nontreated control
Photo: Envu

To talk about your specific needs or to learn more about our solutions, please contact an Envu representative.



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