



ADAMA

Proviso®

Fully adjustable
disease control.

Product overview

Proviso fungicide is ideal for cereal, oats and canola producers and their advisors who want to customise their foliar disease program. It provides excellent control of a broad range of fungal diseases. The unique formulation of 250 g/L of prothioconazole incorporates Asorbital™ formulation technology for enhanced uptake and systemic activity for improved efficacy, crop safety and compatibility.

At a glance

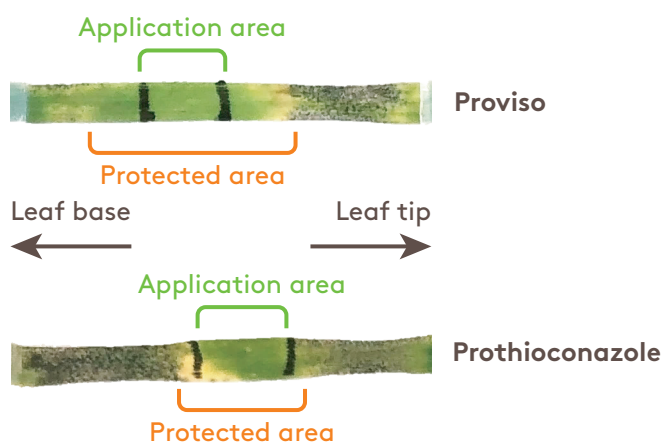
Efficacy	Proviso provides excellent control of a broad range of fungal diseases, including blackleg and sclerotinia in canola, net blotches in barley and Septoria leaf blotch in oats.
Flexibility	Proviso can be safely applied at a range of rates and with a range of labelled tank-mix partners to increase efficacy and spectrum.
Excellent compatibility and crop safety	Proviso has excellent compatibility with other crop protection and nutrition products with minimal impact on efficacy or crop safety.
Fungicide resistance management	Depending on the situation, Proviso can be applied in rotation or tank mixtures with recommended fungicides with different modes of action to reduce the risk of resistance development.
Unique formulation	Proviso is a unique formulation of 250 g/L prothioconazole that incorporates Asorbital™ technology for enhanced uptake and systemic activity for improved efficacy, crop safety and compatibility.
Proven in Australia	ADAMA has comprehensively tested the efficacy, compatibility and crop safety of Proviso in Australian farming systems.

Asorbital™ formulation technology

Demethylation Inhibitor (DMI) fungicides inhibit the development of a specific enzyme in fungi that is important in sterol production, which is essential for fungal cell membrane development. DMI fungicides vary in their solubility and ability to move through the waxy layers of leaf surfaces, as well as their mobility in the translocation stream. This has a direct impact on the efficacy and crop safety.

Proviso incorporates Asorbital™ formulation technology, which rapidly delivers prothioconazole from the point of droplet contact on the leaf, through the cuticle, into the translocation stream and is locally redistributed within the plant to the site of action in the fungal hyphae. This breakthrough in formulation technology has been achieved without any of the crop damage risks normally associated with rapid leaf surface uptake and translocation upwards to leaf tips. Proviso is safe to use in a tank-mix with a range of other crop protection and nutrition inputs.

Impact of Asorbital formulation technology on prothioconazole activity.



FUNGICIDE

Resistance management

Proviso is a Group 3 fungicide with the DMI mode of action. Resistance to some DMI fungicides in several cereal diseases and blackleg in canola has been confirmed in Australia. Proviso should be applied in rotation or in tank mixtures with other fungicides with different modes of action to reduce the risk of resistance development. Proviso is ideal for use as the first foliar application following the use of SDHI or strobilurin-based fungicides on seed or in-furrow. Additionally, Proviso can be applied at later timings on key diseases, particularly in tank mixtures with other fungicides. Recent studies have shown prothioconazole is the most effective DMI fungicide for the control of net blotch populations with low and developing levels of resistance.¹

Diseases controlled

Proviso can be applied at a range of rates, either alone or in tank-mixes with other labelled fungicides, including Orius®, Veritas® and Radial®, in medium to high disease pressure. Proviso should be applied in a tank-mix with other labelled fungicides before or at the first sign of infection, regardless of crop stage. Higher rates should be used where conditions are conducive to disease development, longer residual activity is required or if yield potential is high.

Adjuvant use

Depending on the target disease and crop type, the addition a recommended adjuvant to the spray mix may improve disease control. Only use non-ionic surfactants or seed oils. The use of adjuvants is not recommended for applications in canola. Refer to the registered product label for more information about the use of adjuvants with Proviso.

Compatibility

Proviso has been extensively tested for physical compatibility and crop safety when applied with a range of herbicides, insecticides and crop nutrition products.

Withholding periods

Harvest (barley, wheat, oats):

DO NOT harvest for 5 weeks after application.

Harvest (canola):

Not required when used as directed.

Grazing (barley, wheat, oats, canola):

DO NOT graze or cut for stockfood for 14 days after application.

When tank-mixing Proviso fungicide with another product, observe whichever withholding period is longer.

Proviso recommended application rate and tank-mix partner by crop type and disease pressure

Crop	Disease	Disease pressure / risk		
		Low	Medium	High
Barley	Net form net blotch	125 mL/ha	250 mL/ha OR 125 mL/ha + Orius 75 mL/ha	250 mL/ha + Orius 145 mL/ha OR 250 mL/ha + Veritas 315 mL/ha
	Powdery mildew, Scald, Spot form net blotch	125 mL/ha + Orius 75 mL/ha OR 250 mL/ha	250 mL/ha + Orius 145 mL/ha OR 250 mL/ha + Veritas 315 mL/ha	
	Leaf rust	125 mL/ha + Orius 75 mL/ha	250 mL/ha + Orius 145 mL/ha OR 250 mL/ha + Veritas 315 mL/ha	
	Physiological leaf spotting (abiotic)	125 mL/ha + Orius 75 mL/ha		250 mL/ha + Veritas 315 mL/ha
Oats	Stem rust, Leaf rust	250 mL/ha + Orius 145 mL/ha	250 mL/ha + Orius 145 mL/ha	250 mL/ha + Orius 145 mL/ha
	Septoria blotch	250 mL/ha OR 125 mL/ha + Orius 75 mL/ha	250 mL/ha + Orius 145 mL/ha	250 mL/ha + Orius 145 mL/ha
Wheat	Fusarium head blight	125 mL/ha + Orius 75 mL/ha	250 mL/ha + Orius 145 mL/ha	250 mL/ha + Orius 145 mL/ha OR 250 mL/ha + Veritas 315 mL/ha
	Leaf rust, Powdery mildew, Septoria nodorum, Stem rust, Stripe rust	125 mL/ha + Orius 75 mL/ha	250 mL/ha + Orius 145 mL/ha OR 250 mL/ha + Veritas 315 mL/ha	
	Septoria tritici blotch	125-250 mL/ha	250 mL/ha + Orius 145 mL/ha	125 mL/ha + Radial 420 mL/ha OR 125 mL/ha + Veritas 315 mL/ha
	Yellow leaf spot	125 mL/ha + Orius 75 mL/ha OR 250 mL/ha	250 mL/ha + Orius 145 mL/ha	250 mL/ha + Orius 145 mL/ha OR 125 mL/ha + Radial 420 mL/ha OR 125 mL/ha + Veritas 315 mL/ha
Canola	Seedling blackleg	380 mL/ha		320-380 mL/ha + Veritas 400 mL/ha
	Upper canopy blackleg			380 mL/ha + Veritas 400 mL/ha
	Sclerotinia	380 mL/ha		320 mL/ha + Veritas 400 mL/ha

Always refer to the registered product labels before use.



Scan here for more information

References: 1. Mair, W.J. et al. (2020). Parallel evolution of multiple mechanisms for demethylase inhibitor fungicide resistance in the barley pathogen *Pyrenophora teres* f. sp. *Maculatae*. *Fungal Genetics and Biology* 145:103475.
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