



UNICUR®



User Guide

May 2014

Product profile

Combining the powerful strobilurin fluoxastrobin with the triazolothione prothioconazole (tzt technology), Unicur significantly raises the standard of downy mildew control on bulb onions and shallots.

Active substances	100 g/L prothioconazole and 100 g/L fluoxastrobin
Formulation	Emulsifiable concentrate
Pack size	5 litres
Maximum individual dose	1.25 L/ha
Maximum total dose	5 L/ha
Latest time of application	Up to 10% of leaves bent over (GS 47)
Water volume	100-300 L/ha
LERAP	B

tzt technology

The tzt technology in Unicur advances disease control and plant health. Being a new generation DMI, prothioconazole combines exceptional protection with sustained curative activity for powerful broad-spectrum disease control. Uniquely for a DMI it also stimulates photosynthesis and enhances nitrogen assimilation to deliver greening and physiological effects in the same league as strobilurins enhancing yield and bulb resilience to bacterial infection.

Diseases controlled

Downy Mildew (*Peronospora destructor*)

Leaf blight (*Botrytis squamosa*)

Qualified minor use recommendation: Based on limited data, useful reductions can be expected of infections caused by *Botrytis*, *Cladosporium*, *Stemphylium* and *Puccinia* species and also some reduction of bacterial rots of bulbs associated with downy mildew infections.

Key advantages

- ▶ Nothing controls downy mildew like it
- ▶ Safeguards quality
- ▶ Combined strobilurin and tzt technology physiological effects
- ▶ Boosts plant health and bulb quality from field to store
- ▶ May be used on all commercial varieties of bulb onions

Application

- ▶ Apply Unicur at a rate of 1.25 L/ha in a water volume of 100 to 300 L/ha as a medium quality spray. A spray pressure of 2-3 bar is recommended.
- ▶ The higher spray volumes are recommended where the crop is dense or disease pressure/risk is high to ensure good penetration to the lower leaves and stem bases.
- ▶ Apply as part of a protectant programme, at any stage from when leaf bases begin to thicken (BBCH 40, beginning of bulb formation).
- ▶ Follow with further applications at an interval of about 14 days according to disease pressure.
- ▶ Latest time of application is when 10% of leaves are bent over (BBCH 47).
- ▶ Application to young plants may cause some transient leaf chlorosis and leaf distortion. To avoid this and maximize the yield and quality benefits from Unicur, apply from the beginning of bulb formation.
- ▶ If the crop is intended for processing consult the processor before use.
- ▶ On shallots, use only on crops that will be mechanically harvested.
- ▶ Do not apply by handheld equipment e.g. knapsack sprayer.

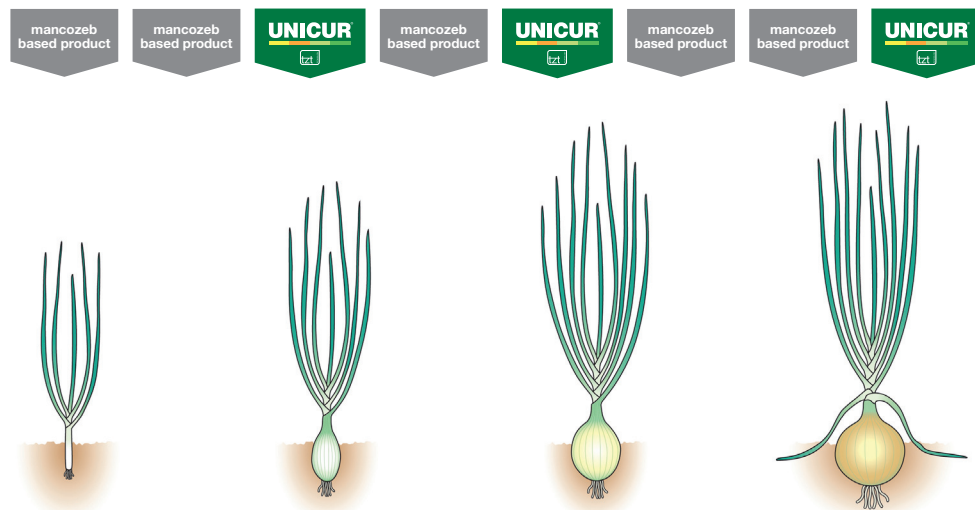
deliver the quality



Bayer CropScience

Programme planning

It is important to structure downy mildew control programmes for optimum disease control with resistance and residue management. Trials have shown that the best partners to alternate with Unicur are mancozeb based products as illustrated below.



Total number of spray applications per crop	5 to 7	8 to 10	11 to 12
Maximum recommended Solo QoI fungicide sprays	2	3	4

Unicur should be used preventatively. Use as part of an Integrated Crop Management (ICM) strategy incorporating other methods of control, including where appropriate other fungicides with a different mode of action. Do not apply any more than two Unicur sprays consecutively.

The possible development of disease strains resistant to Unicur cannot be excluded or predicted. Where such resistant strains occur, Unicur is unlikely to give satisfactory control.

Compatibility

Unicur is physically compatible with a range of other products; for the current list please visit www.bayercropscience.co.uk

Resistance management

Apply fungicides according to manufacturers' recommendations for the target disease (or complex) at the specific crop growth stage indicated. Effective disease management is a critical factor in delaying the build-up of resistant pathogen populations.

Unicur is a mixture of two fungicides with different modes of action; fluoxastrobin, a member of the QoI cross-resistance group, and the triazolinthione, prothioconazole (tzt technology). Unicur must be used according to FRAC guidelines.

For best resistance management solo applications of Unicur should be considered as solo QoI product use. The number of Unicur applications per crop is therefore restricted by the total number of sprays in a programme as follows;

Unicur contains prothioconazole and fluoxastrobin. Unicur is a registered trademark of Bayer.

Use plant protection products safely. Always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label. For further information, please visit www.bayercropscience.co.uk or call Bayer Assist on 0845 6092266 / 01223 226644.

Issue date: May 2014

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