

For the Control of Blackgrass, Other Grassweeds and Broad-leaved Weeds in Winter Wheat

Key Facts

Product Registration Number:	MAPP 15758
Pack Size:	1.08 Kg (Treats 4 hectares at 0.27 Kg/ha)
Active Ingredient g/ha at 0.27 kg UNITE /ha:	18.7 a.i. g/ha pyroxsulam + 10 a.i. g/ha flupyr-sulfuron-methyl-sodium
Formulation:	Water Dispersible Granule
Maximum Individual Dose:	0.27 kg/ha
Maximum Number of Applications:	1 per crop
Application Timing:	GS 11 to before GS 31
Water Volumes:	100-200 Litres water /ha. Optimum 130-150 Litres water/ha
Spray Quality:	FINE to MEDIUM as defined by BCPC
Nozzles:	CFF, VPF, Defy in autumn/early spring
LERAP:	B



Not having to plough before rape gives better blackgrass control from Kerb!

Key Benefits- Why should I use UNITE?

- Widest spectrum grassweed control in the UK
 - Excellent control of blackgrass confirmed through 2 years of commercial use - contact and residual activity
 - Superior control to market standard of wild oats, ryegrass and bromes; additional grasses below
- Superb broad-leaved weed spectrum compared to market standard; see below
- Excellent crop safety
- Rotational cropping flexibility
 - Includes oilseed rape and beans in autumn and no restriction following spring
- No cultivations needed prior to sowing following crops
 - Winter oilseed rape can be safely sown with no need to plough
- Many tank-mix compatibilities to save time
- Ability to use flupyr-sulfuron-methyl without restricting broad-leaved weed ALS-inhibitor options in the spring

Weed Spectrum at 0.27 Kg/ha

GRASSWEEDS:

Annual meadow grass	S <GS 21; MS GS 23	Cockspur grass	MS	Ryegrass (from seed)	GS 29
Barnyard grass	MS	Common couch	MS GS 13	Smooth stalked meadow grass	MS GS 24
Blackgrass	GS 24	Loose silky bent	GS 30	Timothy	MS GS 24
Brome, <i>Anisantha spp.</i> (sterile, great)	GS 24	Millet spp.	MS-S <GS21	Vol. tame oats	GS 24**
Brome, <i>Bromus spp.</i> (meadow, rye, soft)	GS 24	Rat's tail fescue	MS	Wild oats	<GS 32
Canary grass	MS GS 24	Rough stalked meadow grass	MS GS 24	Yorkshire Fog	MS GS 24

BROAD-LEAVED WEEDS:

Charlock	6 etl	Hemp-nettle	4 etl	Sowthistle (annual)	MS
Chickweed	100 mm	Knotgrass	2 etl	Speedwell spp.	6 etl
Chervil	8 etl	Mayweeds	8 etl	Volunteer beans	6 etl
Cleavers	MS 75 mm	Mugwort	MS	Volunteer borage	4 etl
Field pansy	4 etl	Poppy	6 etl	Volunteer linseed	6 etl
Forget-me-not	6 etl	Red dead-nettle	6 etl	Volunteer OSR	6 etl
Fumitory	4 etl	Small nettle	4 etl	Volunteer peas	6 etl
Geranium spp.	8 etl	Shepherd's needle	Up to BSE	Weed beet	4 etl
Groundsel	6 etl	Shepherd's purse	6 etl	Wild radish	6 etl

Key: **bold** – label weeds; listed as susceptible post-emergence unless otherwise stated MS - Moderately Susceptible; etl - established true leaves; BSE – before stem extension
Non-Label weeds listed as an indication of the effect that would be expected to be achieved based on limited data.

**Varietal differences in control, particularly in spring applications.



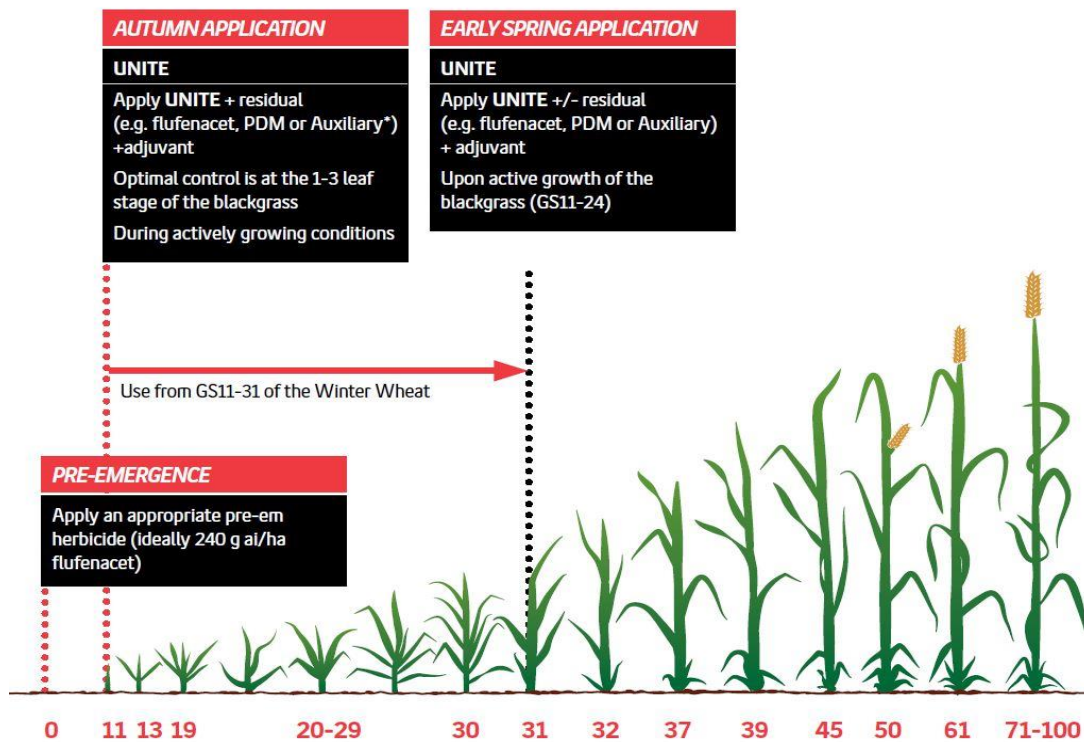
Blackgrass Control Best Use Advice

- Must be used as part of a programme and follow WRAG guidelines
- For optimal control apply following a pre-emergence herbicide – minimum 240g ai/ha flufenacet base. Additional actives can be added to the pre-em stack depending on seedbed conditions, soil moisture and blackgrass pressure
- Apply when weeds are actively growing
 - Optimal blackgrass control is best achieved in the autumn at the 1-3 leaf stage
 - If conditions prevent an autumn application, treatment may be applied in the spring up to GS24 of blackgrass
- Apply UNITE at 0.27 kg/ha with a Dow AgroSciences supported adjuvant
- The following range of adjuvants are supported:
 - Abacus, Activator 90, Bio Syl, Buzz, Cogent, Drill, Headland Diamond, Headland Fortune, Intracrop Felix, Intracrop Warrior, Kantor, Kinetic, Respond, Roller, Spartan, Spryte Aqua, Tonto, Torpedo II, Viking
- For all grassweed situations apply UNITE + adjuvant with a suitable residual partner (see **TANK MIXING**)
- Follow tank-filling procedure on the label
- To avoid subsequent injury to crops other than wheat, spray equipment used for UNITE applications should be thoroughly cleaned with All Clear Extra

TANK MIXING

- UNITE + recommended adjuvant is compatible with the following residual partners:
 - PDM (all formulation conc. and types) min 800g ai/ha e.g. Stomp Aqua
 - PDM + picolinafen – min 2.5 L/ha + e.g. Picona
 - PDM + DFF – min 2.5 L/ha
 - Flufenacet based products – min 120g ai/ha,
 - Prosulfocarb
 - Prosulfocarb + clodinafop-propargyl e.g. Auxiliary
- UNITE + recommended adjuvant + residual partner is compatible with the following BYDV insecticides:
 - Alert, Cypemethrin EC, Decis EC, Decis Protech, Fury 10EW, Hallmark Zeon, Karate 2.5 WG, Kendo 5 CS, Mavrik, Sumi Alpha, Sven
- Refer to <http://uk.dowagro.com/tank-mix-information/> for more information on compatibilities and ALS joint applications

Blackgrass Programme



Winter Wheat growth stages: Zadok's Scale



Dow AgroSciences

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