

A new & exciting post-emergence herbicide for use on both forage & grain maize. It controls a wide range of both grass and broad-leaved weeds with few following crop restrictions.

Key facts

Product Registration Number:	MAPP No. 20797
Active Ingredient:	541.58 g/kg dicamba + 62.47g/kg nicosulfuron + 31.25 g/kg rimsulfuron + 31.25 g/kg isoxadifen-ethyl safener (HRAC Group 4 and 2 Herbicides)
Pack Size:	2.4 kg (treats 5 ha). 4 packs in a case.
Formulation:	Water Dispersible Granule (WDG)
Crops:	Forage and grain maize
Maximum Individual Dose:	480 g/ha
Maximum Total Dose:	480 g/ha
Timing:	From 2 up to and including 9 leaves unfolded (GS12-19) Apply between 1 st May and 31 st July
Water Volumes:	200-400 l/ha
Spray Quality:	Medium/coarse as defined by BCPC
Buffer Zone:	5 m, reducible to 1m if a dry ditch
Rainfastness:	4 hours

Best use advice

- Principal Forte contains nicosulfuron and rimsulfuron, sulfonylurea (ALS inhibitor) herbicides and dicamba (phenoxy) herbicide, all of which work mainly by contact action and are most effective if applied when the weeds are small and actively growing.
- Must be applied with an adjuvant that is classified as 95.0% w/w oil (rapeseed triglycerides), i.e. Codacide. Or with Vivolt at 0.2% v/v.
- Good spray coverage of the weeds must be obtained for best results. Susceptible plants cease growth almost immediately after application and symptoms can be seen from two weeks after application.
- Weed control may be reduced when soil conditions are very dry.
- Principal Forte should not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth. Applications to stressed crops may lead to incidences of persistent crop damage.
- Transient yellowing and/or crop stunting may be seen from 1-2 weeks after treatment, this is quickly outgrown and has no impact on yield.
- Weeds germinating after treatment may not be adequately controlled.
- Do not use Principal Forte on crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- To avoid subsequent injury to other crops, all spraying equipment must be thoroughly cleaned using a proprietary tank cleaner.

Following crops

- In a normal rotation only winter cereals can be drilled in the same calendar year of application. It is recommended to plough first, although if there is a sufficient gap of 90 days from application to planting, the need to plough can be removed.
- Ryegrass is also a supported following crop and can be planted without concern.
- Spring cereals, ryegrass, maize, OSR, potato, sugar beet, peas or beans can be planted in the spring following application.

Crop failure

- In the event of crop failure only maize and cereals can be planted after a period of at least 75 days after application. It is recommended to plough first.

Weed spectrum

- The susceptibility rating of weeds in the following table are from the cotyledon to 4-leaf stage with good spray coverage and growing conditions using Principal Forte at 480 g/ha + recommended adjuvant. Weeds germinating after treatment may not be adequately controlled.

Grass weeds					
Black-grass	S up to 4TL	Crab/Hairy finger grass	MS up to 2TL	Millet	S up to 4TL
Bent spp.	S up to 4TL	Fescue spp.	S up to 4TL	Ryegrass	S up to 4TL
Brome spp.	S up to 4TL	Green bristle grass/Foxtail	S up to 6TL	Volunteer cereals	S up to 4TL
Cockspur/ Barnyard Grass	S up to 6TL	Meadow grass, annual	S up to 4TL	Wild oats	S up to 4TL
Couch	S up to 6TL				
Broad-leaved weeds					
Amaranth, common	S up to 4TL	Field pennycress	S up to 4TL	Red dead nettle	S up to 4TL
Bindweed, black	S up to 4TL	Groundsel	S up to 4TL	Redshank	S up to 4TL
Bindweed, field	S up to 4TL	Knotgrass	MS	Shepherd's purse	S up to 4TL
Charlock	S up to 4TL	Mayweed	S up to 4TL	Sow thistle	S up to 4TL
Chickweed	S up to 4TL	Nettle, small	S up to 4TL	Speedwell	S up to 4TL
Cleavers	S up to 4TL	Nightshade, black	S up to 4TL	Thistle, creeping (seed)	MS
Cranesbill	MS	Orache	S up to 4TL	Thorn apple	S up to 4TL
Dock seedlings	-	Pale persicaria	S up to 4TL	Volunteer potatoes	
Fat hen	S up to 4TL				
	Susceptible		Moderately susceptible	-	No data
Key: Label weeds in bold . TL – True leaves, - no data Non-label weed information based on anecdotal or limited data and is only indicative and should not be considered as a recommendation for use on the part of Corteva Agriscience. The user assumes full responsibility for use on the weeds.					

Application and mixing guidance

- Half fill the spray tank with clean water and start the agitation.
- Pour in the required amount of Principal Forte.
- Rinse any empty containers thoroughly and add rinsings to the spray tank.
- Where tank mixes are used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water dispersible granules, wettable powders, suspension concentrates (flowables), emulsifiable concentrates, solution concentrates. Each product should be added separately to the half-full sprayer and be fully dispersed before the addition of the next product.
- Add the remainder of the water.
- Finally, add the required amount of adjuvant and continue agitation.
- Maintain agitation until spraying is completed.
- Spray solution MUST be used on the day of mixing and must NOT be left overnight.
- Follow manufacturer recommendations regarding correct use of the induction bowl.

A full range of tank mix partners supported with Principal Forte, including mixes with Starane Hi-Load HL can be found on our website at <https://www.corteva.co.uk/tools-and-advice/tank-mix.html> or for more information call or email the hotline.