BackRow Max®
ADJUVANT

The UK's #1 just got cleaner & meaner

MAKES WEEDS A NO-SHOW

Residual herbicide adjuvant for use in a wide range of crops

INTERAGRO
THE ADJUVANT EXPERTS

www.interagro.co.uk

Battling grass-weeds & the weather?

Tired of fighting grass-weeds year after year?

As increasingly suboptimal weather conditions continue to weaken residual herbicide performance and risk crop and groundwater safety, keeping problem weeds at bay can feel like a never-ending battle:

- **Spray drift reduces herbicide coverage across the soil**
- **Dry seedbeds reduce herbicide activation & uptake**
- **Heavy rain can leach herbicides out of the weed zone**
- **Heavy rain can leach herbicides to the crop seed**
- **Very heavy rain can leach herbicides to groundwater**

Adding a proven adjuvant to your tank mix is the #1 thing you can do to boost the efficacy of your herbicide and protect your crops from the threat of weeds.

Backrow Max®

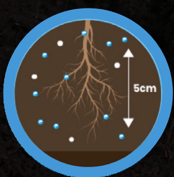
Take herbicide performance to the max

Backrow Max® is a specialist activator adjuvant designed to power residual herbicide performance in the toughest of weather and application conditions, helping to take down yield-robbing weeds once and for all.

Backrow Max® ensures:

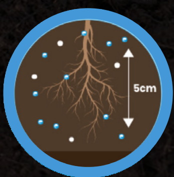
MORE TARGETED APPLICATION

Optimises herbicide coverage & deposition across the soil



SUPERIOR PERFORMANCE IN DRY SOILS

Lowers dependency on rainfall for activation & uptake



SUPERIOR PERFORMANCE IN WET SOILS

Creates a stronger barrier to emerging weeds

PROTECTS CROPS & GROUNDWATER IN WET SOILS

Reduces chemical leaching by as much as *60%

*Already proven with Backrow® in The Netherlands, and Backrow Max® is stronger than Backrow®

Backrow Max®

Makes weeds a no-show

Based on the UK's leading* residual herbicide adjuvant Backrow®, Backrow Max® offers all the same tried and trusted benefits growers and agronomists have come to expect from Backrow®, in a tweaked formulation that makes for a cleaner label and meaner weed control.

Cleaner label

At Interagro we don't just make the best adjuvants, we also aim to make them cleaner and greener than everyone else so we can help you protect crops in the most sustainable way possible.

Adjustments to the component ratio have resulted in a cleaner label with no hazard statements. This makes Backrow Max® better for the environment.

More active per litre

Backrow Max® contains a proprietary emulsifier blend with 82.6% high grade EP oils as opposed to 60% in Backrow®. Providing a more optimal balance of crucial adjuvant components, you can be certain that Backrow Max® is at least as effective as Backrow® - confirmed in 4 years of replicated field trials.

Strongest retention

Research at the Institute of Soil Science and Plant Cultivation National Research Institute in Wroclaw in 2021 and 2022, has shown that Backrow Max® is even more effective than Backrow® and competitor adjuvants Drill™, Grounded® and Adhere™, at retaining herbicides in the top 5cm in wet soils.

Crucially this helps to create a stronger barrier to emerging weeds and even greater protection to crops and groundwater.

*(Source: Kynetec DMR. FarmTrak W2 2019/20)

Backrow Max®

You can count on it

IT'S MORE ENVIRONMENTALLY FRIENDLY

- Biodegradable oils
- Zero hazards on the label

IT'S TOP-PERFORMING

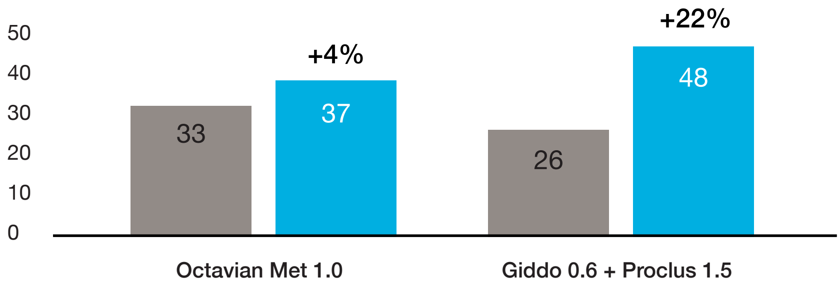
- UK's leading residual herbicide adjuvant that's now even better
- Secures best herbicide retention in the weed zone in wet soils

IT'S YOUR BEST SAFETY NET

- Best security policy for crops & groundwater in wet soils

Backrow Max® adds valuable weed control in suboptimal conditions

% Black-grass control in Winter Wheat with and without inclusion of Backrow Max®



Source Agrii, 2019. Stow Longa. Treatments applied pre-emergence. Octavian Met contains diflufenican + flufenacet + metribuzin. Giddo contains diflufenican + flufenacet. Proclus contains aclonifen. P Value = 0.0581, LSD = 31.4%

The chart above shows the effect of Backrow Max® on the performance of two commonly used herbicide programmes in Winter Wheat – Octavian® Met and Giddo® + Proclus®. With Octavian® Met, Backrow Max® added 4% control, decreasing the number of heads per/sqm in the trial by 12. With Giddo® + Proclus®, Backrow Max® increased black-grass control by 22% and reduced the number of heads/sqm by 55. With just 10 black-grass heads per sqm leading to seed return of 1,000 seeds per sqm, Backrow Max® can have a considerable benefit on the weed seed bank and subsequent yield.

How Backrow Max® helps

More targeted application

35% less drift prone droplets

Optimises herbicide coverage & deposition across the soil

Backrow Max® significantly reduces the number of fine spray droplets smaller than 100 microns which are the most susceptible to drift, and increases the number of droplets in the optimum size range for improved deposition and optimum spray coverage of the soil.

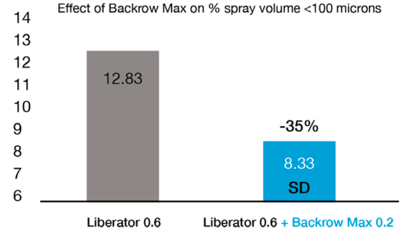
Even spray coverage across the soil surface is vital for effective residual herbicide performance, but pre-emergence applications are prone to drift and this puts deposition and effective spray coverage at risk.

Adding Backrow Max® creates the perfect size spray droplets for pre- and peri-emergence herbicides to work at their best.

Spray application tests in trials and on-farm with a range of nozzle types, have shown that a combination of drift reducing nozzles and Backrow Max® offers the best approach for the optimal targeting of residual herbicide applications to block germinating weeds.

Significant reduction in the number of drift prone spray droplets

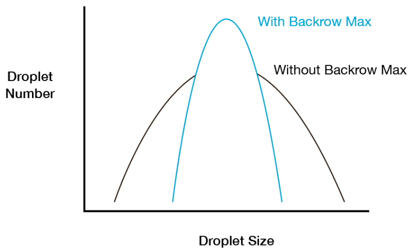
Effect of Backrow Max on % spray volume <100 microns



Source: Silsoe Spray Applications Unit, UK 2020. Lurmark 03F110 Flat fan, 200 L/ha of water. SD = Significant difference to Liberator alone.

Creates the perfect size droplet

Effect of Backrow Max on droplet size and number



Superior performance in dry soils

Dry conditions for 30 days after emergence impacted herbicide efficacy. Weed control was significantly more effective with the inclusion of Backrow Max®

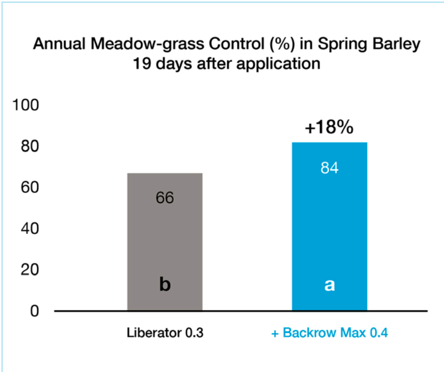
Lowers dependency on rainfall for activation & uptake

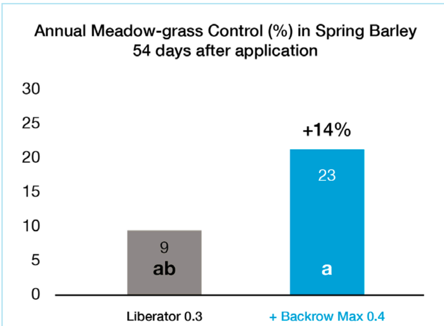
Likened to rain in a can, Backrow Max® increases moisture retention in the top 5cm of the soil, reducing dependency on rainfall for herbicide activation and uptake into weeds. Trials in The Netherlands have shown that Backrow Max® can increase moisture retention by as much as 30%.

All residual herbicides require soil moisture for activation and uptake in to weeds.
Typically, some rainfall following application will be required to ”activate” herbicide movement from the soil surface to the weed germination zone for uptake to occur.

With increasingly dry conditions at drilling, Backrow Max® gives your herbicide the best possible chance of performing to its potential.

Retaining higher moisture levels in the soil, which in turn increases herbicide activation and uptake in to weeds, research and trials have shown that Backrow Max® improves the performance of residual herbicides in dry soils and can benefit weed control by as much as 20%.





OAT 2018. Stonehaven. Treatments applied pre-emergence.
Liberator contains flufenacet + diflufenican.

How Backrow Max® helps

Superior performance in wet soils

Creates a stronger barrier to emerging weeds

Retaining significantly more herbicide in the top 5cm of the soil compared to herbicides applied alone, adding Backrow Max® ensures a longer and more concentrated presence of the herbicide in the weed germination zone in wet soils, creating a stronger barrier to emerging weeds.

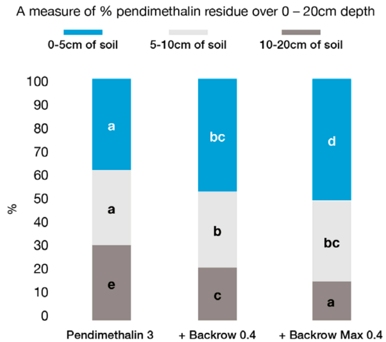
Pre-emergence herbicides and their active substances often require additional support from an effective adjuvant to keep them in the weed germination zone (the top 5cm) in wet soils.

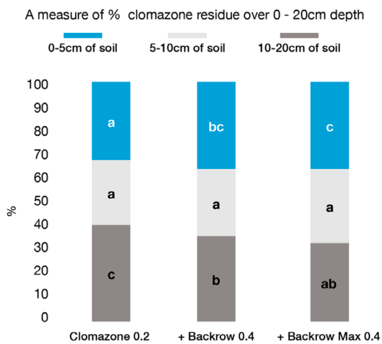
With excessive rainfall, even herbicides with low mobility such as pendimethalin, can be lost, particularly in light soils, leading to poor weed control.

Research conducted by the Institute of Soil Science and Plant Cultivation in Poland in 2021 and 2022 showed that adjuvants vary greatly in their influence on herbicide retention, with Backrow Max® securing the greatest retention of all in wet soils.

The addition of Backrow Max® ensures superior herbicide performance in wet soils, for the ultimate weed free start.

Backrow Max holds significantly more herbicide in the top 5cm of the soil than Backrow





Source: Institute of Soil Science and Plant Cultivation National Research Institute in Wroclaw, 2022. Different letters signify statistically significant differences between treatments.

Protects crops and groundwater in wet soils

Reduces chemical leaching

Backrow Max® increases herbicide retention in the upper soil profile, reducing leaching to crop seed and groundwater lower down. Research in the Netherlands has shown that Backrow Max® can reduce chemical leaching by as much 60%.

Chemical leaching from the top 5cm of the soil can become problematic with the stacking of residual herbicides late in the autumn, when soils become saturated with prolonged spells of heavy rain.

Herbicides with high mobility pose the biggest threat to crops and groundwater, particularly in light soils.

Backrow Max® adds valuable protection to crop and groundwater safety by minimising chemical loss from the weed zone.

Backrow Max®

Approved label crops in the UK

The benefits of Backrow Max® can be utilised with all approved residual herbicides in the following crops up to the latest timing of the herbicide:

Vegetable crops

Broccoli / Calabrese
Brussel Sprouts
Bulb Onion, Shallot, Cabbage
Oriental Cabbages Cauliflower
Carrot, Parsnip, Swede, Turnip
Garlic
Red Beet*
Leek
Spinach
Spring Greens - Collard and Kale

*Does not include beetroot grown for salad leaf use

Fruit & salad crops

Apple and Pear
Apricot, Cherry, Peach, Nectarine and Plum
Blackberry, Raspberry and Strawberry
Blackcurrant and Redcurrant
Cucumber
Lettuce
Rocket
Salad Onion
Sweetcorn
Table Grapes and Wine Grapes
Tomato

Arable crops

Winter and Spring Cereal
Beans - Fresh, Broad, Runner
Combining and Vining Peas
Field Bean
Hops
Linseed
Forage Maize
Oilseed Rape
Potatoes
Soybean
Sugar Beet

Product and application information

Classification	Residual herbicide adjuvant
Composition	82.6% petroleum oil
Recommended use	With all residual herbicides applied pre- and peri-emergence.
Soil type	For use in all soil types except pure sand
Rates of use	0.2 L/ha in the Autumn, 0.4 L/ha in Spring
Mixing order	Add to the spray tank first before adding crop protection products.
Pack size	3 litres
UK suppliers	Backrow Max® is available to purchase through Agrii

Get in touch

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