

THE POWER OF TWIN SALT



Grow a better tomorrow.

WeedMaster® TS540 with Twin Salt™ technology is a powerful non-selective herbicide from Nufarm.

WHAT MAKES WEEDMASTER TS540 DIFFERENT?

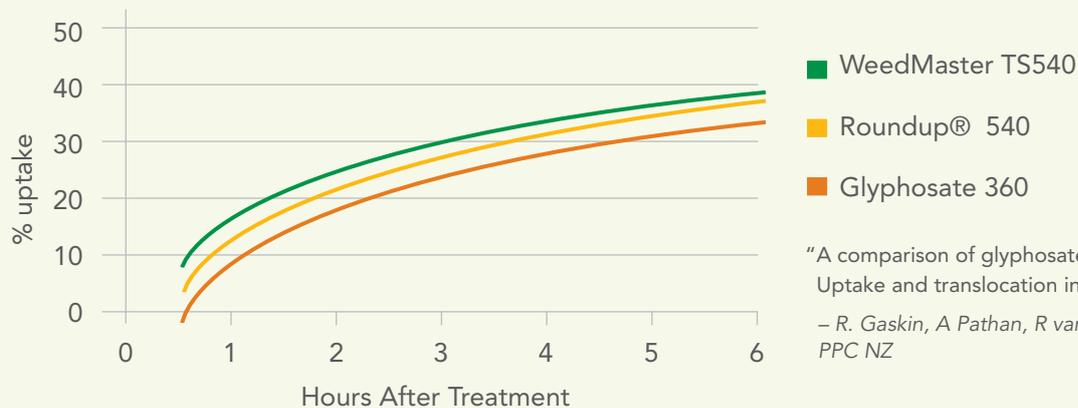
WeedMaster TS540 is a patented formulation that contains 540g/L glyphosate with a blend of both potassium and isopropylamine salts. Combining these two salts into one formulation enables faster uptake, better efficacy and consistent results in the field.



- Excellent control of target species
- Fast uptake and brownout
- A high strength product that is 50% stronger than 360g/L glyphosate formulations
- A free flowing, low foam, easy to use formulation



WEEDMASTER TS540 – FAST UPTAKE



Trendlines for treatment uptake in first 6 hours

“A comparison of glyphosate formulations: Uptake and translocation in barley.”

– R. Gaskin, A Pathan, R van Leeuwen
PPC NZ



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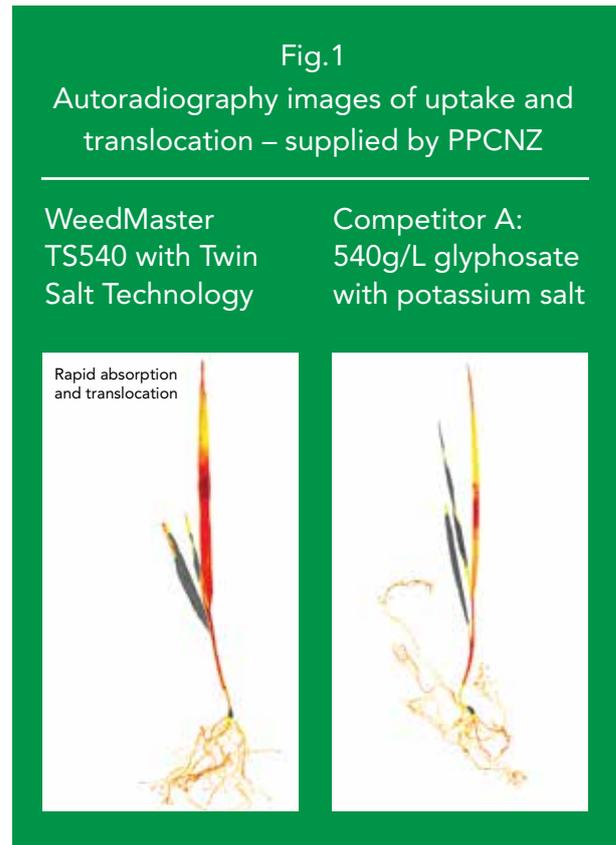
SUPERIOR UPTAKE AND EXCELLENT TRANSLOCATION FOR OUTSTANDING RESULTS

For superior control, glyphosate must adhere to the surface of the leaf, be rapidly absorbed and then move quickly into the leaves and roots of the plant. If the plant shuts down before the herbicide is translocated through its entirety, it can survive.

WeedMaster TS540 beats the plant's defense system through good absorption, fast uptake and excellent translocation. A lethal dose is delivered to the foliage, stem and root system even under challenging conditions.

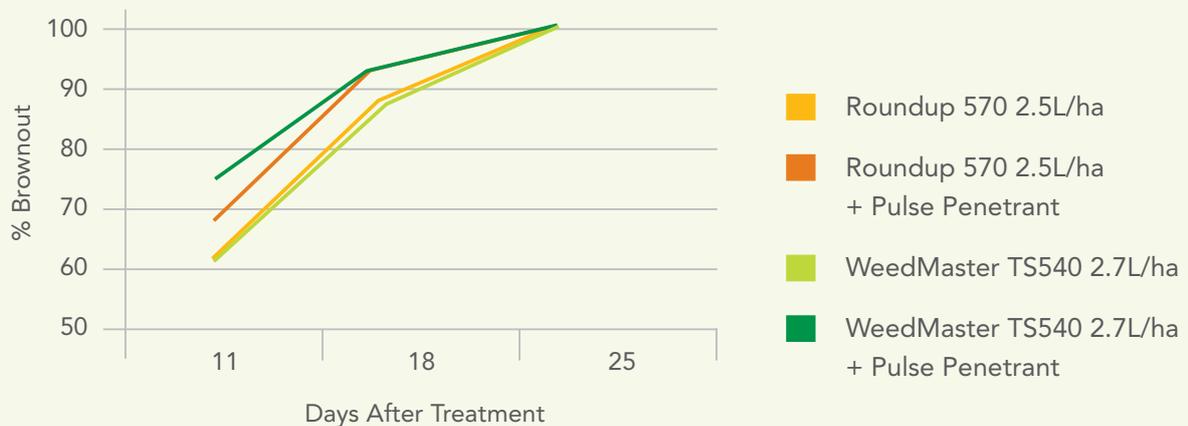
Fig. 1 shows New Zealand barley plants treated with radio-labelled glyphosate formulations. At point of application, the glyphosate is yellow. As it intensifies over a 48 hour period it changes to red.

Small droplets of the test formulations (each containing the same amount of glyphosate active ingredient) were placed on the youngest fully expanded leaf. The radiation is measured after 48 hours with an increased



intensity of red colour indicating the highest concentration of glyphosate. These images demonstrate the rapid uptake and movement of glyphosate from the point of application to the surrounding leaves and down the stem into the root system.

EXCELLENT PERFORMANCE AGRESEARCH PERENNIAL RYEGRASS TRIAL



UNIQUE SURFACTANT PACKAGE ACTIVATE™

The “in can” surfactant in WeedMaster TS540 is critical to performance. The surfactant affects the amount of chemical deposited on the leaf, the speed of uptake and the total amount of glyphosate taken into the foliage. This is important in New Zealand where our target species, ryegrass, has a very waxy leaf cuticle. New Zealand’s unpredictable weather means

you are often spraying in less than ideal conditions too.

WeedMaster TS540 contains an exclusive blended surfactant known as Activate – specifically designed to compliment the high load dual salt formulation. Activate improves deposition of active ingredients on the leaf surface and accelerates uptake through the leaf cuticle.

HIGH STRENGTH FORMULATION EFFICIENCIES

WeedMaster TS540’s high strength formulation provides important practical benefits:

- Lower per hectare application rates.
- A smaller amount of product to purchase and transport.
- Fewer empty containers to recycle.
- Low temperature storage stability.
- A free flowing easy to pour formulation, which speeds up mixing and turn-around time.
- Stability for at least five days after mixing in the tank. This ensures a quality job even when the weather delays spraying.

THE ADDITION OF PULSE® PENETRANT

When spraying out pasture always add Pulse Penetrant to WeedMaster TS540 to get consistent control of ryegrass and a 20 minute rainfast period.

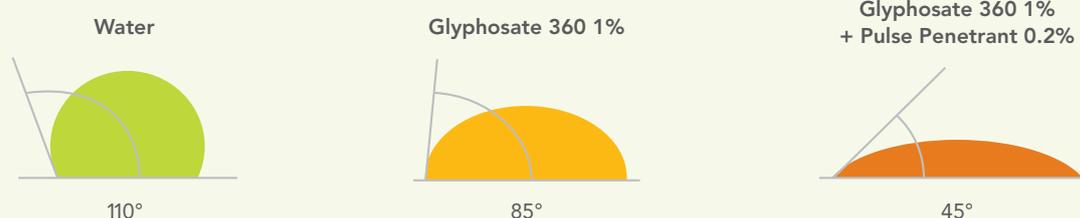
When ryegrass is growing rapidly, particularly in spring, the cuticle becomes extremely

waxy. This waxy layer inhibits the uptake of glyphosate into the plant and may result in poor control.

Pulse Penetrant overcomes this problem by dropping the surface tension of the spray solution to such a low level that it is rapidly absorbed through tiny pores in the leaf (stomata). This ensures high uptake, rainfastness and reliable control.

**WHEN PULSE PENETRANT IS USED MORE OF THE LEAF SURFACE IS COVERED
ALLOWING MORE GLYPHOSATE TO BE ABSORBED MORE QUICKLY.**

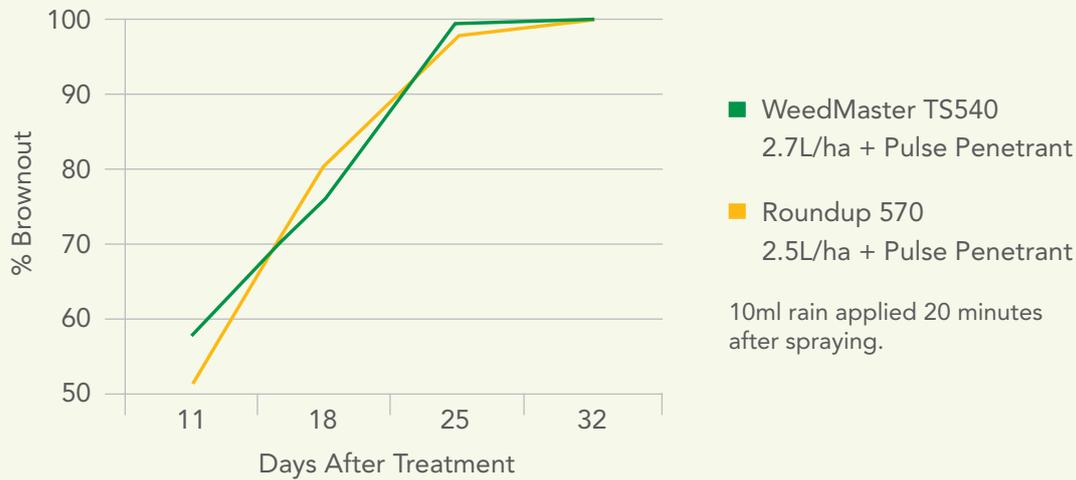
SURFACTANT - Surface Active Agent



RAINFEST IN 20 MINUTES

WeedMaster TS540 (when used in tank mixture with Pulse Penetrant) should deliver commercially acceptable weed control even if light rain occurs just 20 minutes after spraying. If it fails Nufarm will replace up to 100% of your initial use rate of WeedMaster TS540 for retreatment.

OUTSTANDING RAINFASTNESS AFTER 20 MINUTES AGRESEARCH PERENNIAL RYEGRASS TRIAL



EXTENSIVE LABEL CLAIMS

WeedMaster TS540 is labeled for an extensive number of use situations, but if you find a rogue weed that you need help to control then Nufarm has the local expertise and experience in the field to draw upon. Current label claims and use directions resulting from years of New Zealand research and experience include:

- Graze, cultivate or drill 24 hours after treatment for annual weeds and three days for perennial weeds.
- Pasture seed-head suppression to maintain pasture grasses in a vegetation growth phase.
- Manage spraying of silage before cutting.
- Manage spraying of silage or hay paddocks after cutting.
- Pre-harvest clean-up of weeds in wheat, barley, oats and peas.





POWERFUL REWARDS FOR LOYALTY TO WEEDMASTER AND NUFARM

Every purchase of WeedMaster TS540 earns you valuable reward points in Priority Partnership®, the loyalty rewards programme for New Zealand farmers. Reward points can be redeemed on items ranging from toasters to televisions.

If you are not a member yet, find out more and join online at www.prioritypartnership.co.nz

PERFORMANCE GUARANTEE

We're so confident about the superior performance of WeedMaster TS540 we guarantee commercially acceptable results when it is used according to the label directions. If it fails Nufarm NZ will replace up to 100% of your initial use rate of WeedMaster TS540 for re-treatment.



Contact your rural merchant for more information, or visit nufarm.co.nz

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