

Where will Rescue be used around the course?



Greens

Rescue can remove Ryegrass on greens, to provide a far superior putting surface. The use of Rescue avoids the need for aggressive verticutting or time consuming hand-weeding. Also for use on surrounds and approaches, to minimise further Ryegrass incursion and enhance visual appeal and playability.



Tees

Rescue control of Ryegrass on tees will produce a more consistent and easier to manage playing surface with superior aesthetics and playing characteristics, without the need for repeated verticutting or scarifying which can lead to the need for unpopular temporary tees.



Fairways

Ryegrass plants on fairways cause unsightly clumps with inconsistent ball bounce and difficult lies. Ryegrass is visually unattractive, and difficult to mow cleanly. Using Rescue on fairways will produce better playing conditions and minimise Ryegrass spread into other areas.



Rough and semi-rough

Removal of Ryegrasses from rough and semi-rough areas with Rescue to leave a more open sward will improve playability, aid ball recovery and speed up play. Trials have also shown that creating a more open sward will encourage greater biodiversity and assist the creation of beneficial environmental areas.



Ian Morrison,
West Hill Golf Club

"The Rescue trial areas were badly infested with clumpy Ryegrass. After treatment these areas are now completely clear of Ryegrass; they look smooth and present very good playing surfaces. I will be regularly using this product."



Steve Smith,
Gillingham Golf Club

"Infestations of Ryegrass were severely affecting the quality of the greens. A few weeks after the second Rescue treatment it had completely gone and the putting surfaces were playing very well."



Ray Day,
Saunton Golf Club

"Rescue has done everything that we were told it would do. As soon as it is commercially available we will be using it regularly to manage coarse grass invasion."



Duncan Kelso,
Kings Hill Golf Club

"Ryegrass has been a recurring problem affecting playing surfaces across the course. Our trials results show we now have an option to effectively control the problem and consistently improve the appearance and quality of our turf."

Other Areas

Trials have shown that Rescue can be used to remove Ryegrass and other weed grasses, such as Purple Moor-grass, from heather areas on the course, without any adverse effects on the heather.

Rescue - environmental impact assessment

Rescue has undergone full and rigorous risk assessments of the potential environmental impacts throughout the UK registration and approval process. The evaluation of the ecological studies has also fully satisfied the independent regulatory authorities.

✓ **PASSED** risk assessments used by the Regulatory Authorities for arthropods, bees and soil organisms, including earthworms. There was no effect on either nitrogen or carbon mineralization at doses up to nearly 5 times the predicted environmental concentration in soil.

✓ **PASSED** assessments of risk from spray drift during application for all aquatic organisms, including plant species. Rescue has no LERAP buffer zone requirement meaning that treatments can be made alongside water courses.

✓ **PASSED** risk assessments carried out on operator exposure, bystander exposure and re-entry of treated areas by children.

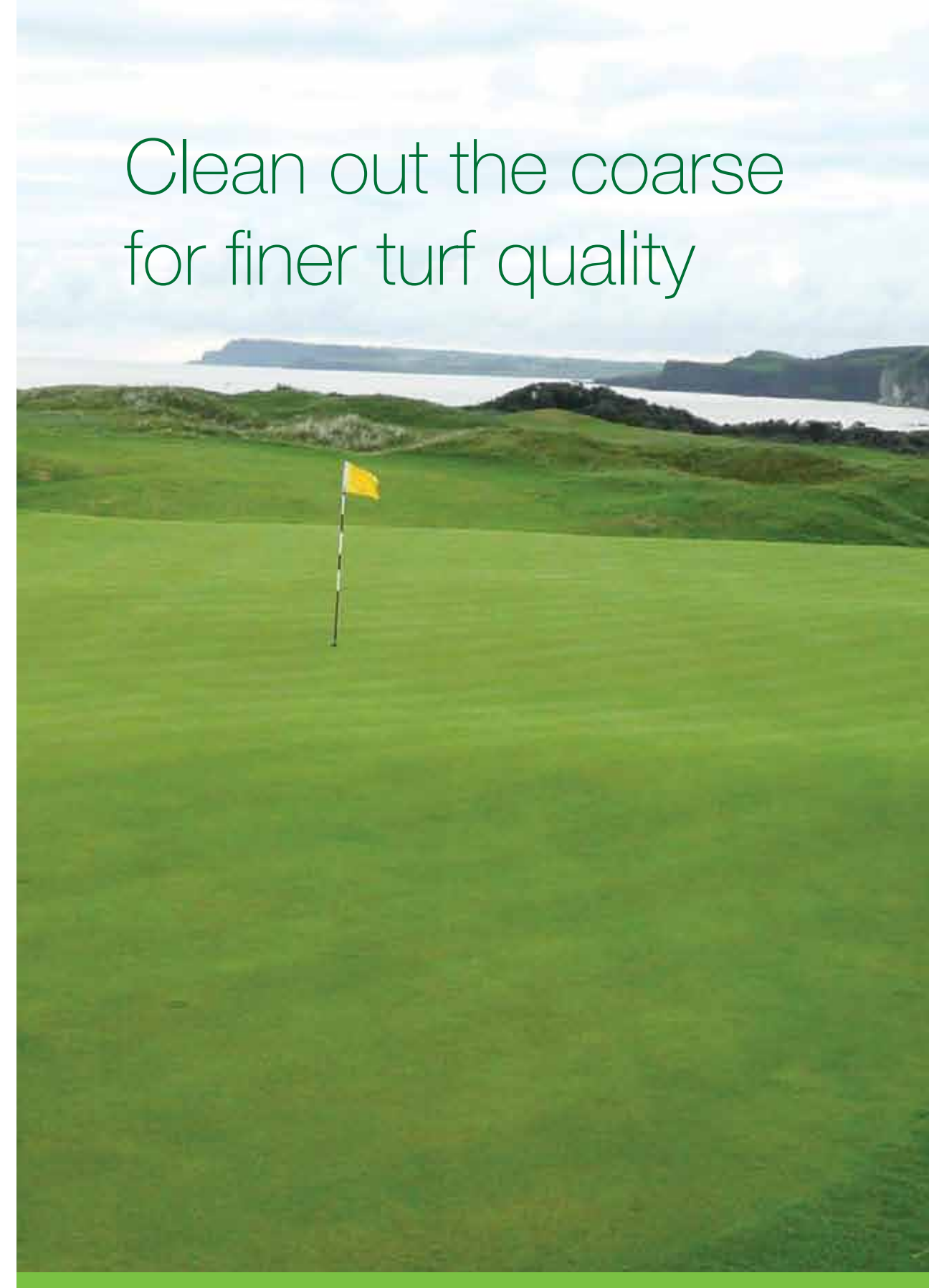
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Clean out the coarse for finer turf quality



RESCUE®

syngenta.

What is Rescue?

Rescue is an exciting new selective herbicide from Syngenta, for the control of Ryegrass infestations in fine turf swards.

For the first time, golf course managers have the opportunity to quickly and effectively reduce invasive clumpy Ryegrass that adversely affects the quality and playability of turf, without recourse to expensive, mechanical verticutting, laborious hand-weeding or even re-turfing.

In just one or two applications over a season, Rescue can reduce Ryegrass and, with the help of over seeding, reinstate finer species to create consistent high quality playing surfaces.

Occasionally some temporary yellowing may be seen on Colonial/Brown-top Bentgrass and Smooth-stalked Meadow-grass following Rescue application; this effect is transient and is outgrown in good growing conditions. Highland Bent has however shown some susceptibility. Trials have shown Rescue can also control some other undesirable coarse grasses, including Yorkshire Fog and Purple Moor-grass.

What is the Rescue programme?

The Rescue Programme has been developed from extensive replicated field research and user trials. It represents the best advice on how to remove unwanted Ryegrass and reinstate finer species without interruptions to play. It incorporates the use of Rescue, over seeding and Primo Maxx in a programmed approach to restore turf quality.

Rescue has been extensively trialled and proven on all golf course types where invasive Ryegrass cause perpetual problems:

Links



Heathland



Parkland



Benefits of Rescue

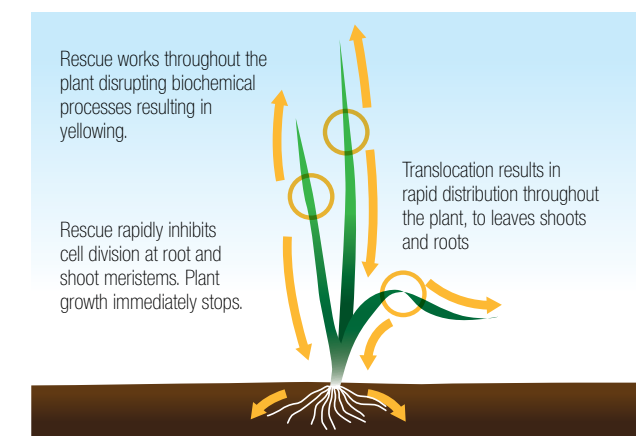
- Removes Ryegrass and some other invasive grass species
- Safe for use on fescues, *Poa annua* and some other fine turf species
- Suitable for use on all golf course situations
- Specifically developed for golf course applications

How does Rescue work?

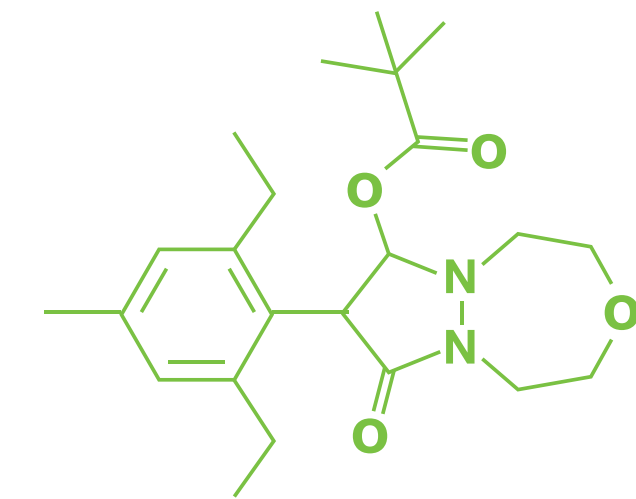
Rescue is an entirely new class of selective herbicide chemistry for the turf sector. Developed by Syngenta, specifically for the golf market, Rescue targets both root and leaf meristems of selective target grass species, to stop cell division and achieve a complete weed kill.

Rescue includes a built-in wetter to ensure the active ingredient is rapidly taken up by target plants and gets to work quickly – moving throughout the plant to reach growing tips and roots.

When applied as recommended during periods of active growth, the first visible effects are usually seen within 10 days of Rescue application, with complete foliar die-back within 3–4 weeks.



The Rescue molecule



Grass identification guide



Grass species susceptibility to Rescue

Unaffected	Moderately susceptible	Susceptible
Fescues		
<i>Poa annua</i>		
SSMG ¹		
Browntop Bent*		
	Highland Bent	
		Perennial Ryegrass
		Italian Ryegrass**
		Purple Moor-grass**
		Yorkshire Fog**

¹ Smooth-stalked Meadow-grass (SSMG)
 * Effects on Colonial/Browntop Bent vary greatly according to conditions at the time of application, from no effect to some susceptibility. Temporary yellowing of Bentgrass has been noted in some trials, which has typically been outgrown after 7–10 days during good growing conditions.
 ** Control noted in trials – no label recommendation

Accurate grass species identification is essential before the use of Rescue to know:

(a) Which grasses will be removed (b) How much turf cover will be removed (c) Which grasses will be left



Perennial Ryegrass identification – key characteristics

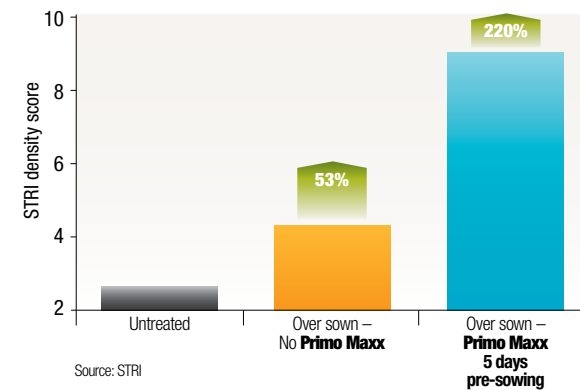
- **Red stem** at the base of the plant
- The back of the leaf is **shiny**, and the tips of unmown leaf blades are tapered
- A rich green grass, with the leaf **folded** in the shoot
- The leaf base has auricles that clasp the stem
- Inflorescence – spike

Over seeding success

Over seeding following Rescue application will minimise Ryegrass reinfestation and rapidly restore fine turf surfaces. Over seed with seed mixtures containing fescues and other fine grass species which will enhance surface quality.

Time Rescue applications to tie in with conventional over seeding programmes and coincide with weather conditions conducive to seedling germination and establishment.

The ideal time for over seeding is when treated plants have died back and pass the 'Rescue Rub Test' – the treated Ryegrass plants break up when gently rubbed. However, user experiences have shown over seeding can successfully be undertaken before Rescue application or from 7 days after treatment when conditions are right. STRI trials have shown the success of over seeding programmes can be significantly enhanced with an application of Primo Maxx 5 days before sowing. The application of Primo Maxx – to suppress existing turf growth and allow the seedlings to establish more effectively – achieved a 220% increase in turf density, compared to over seeding alone.



Apply Scotts Greenmaster liquid fertilizer 10-14 days after germination of over sown seed with another application 21 days after that. Primo Maxx programmes can continue on over sown turf as soon as seedlings reach the two to three leaf stage, to encourage rooting and improve turf density.

The Rescue fine turf programme

Autumn treatment

Trials have shown autumn applications of Rescue can give the highest levels of Ryegrass control. Apply in sufficient time to enable over seeding where required.

Spring treatment

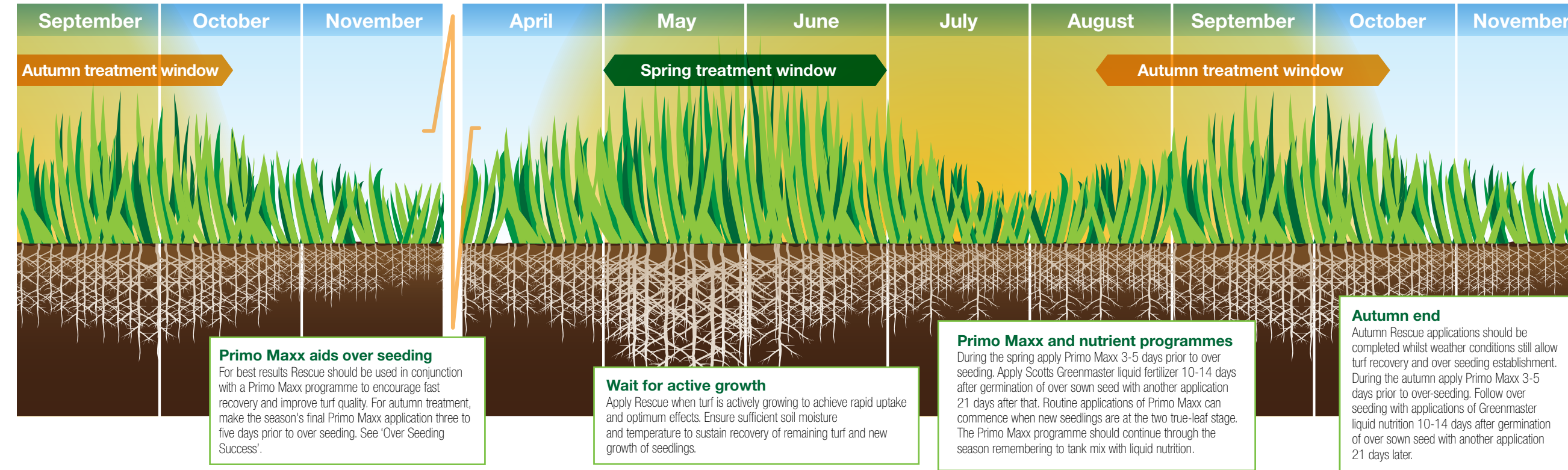
The Rescue Programme may also be started in the spring. Any regrowth from initial spring applications tends to be soft and weak and easier to manage. A follow-up autumn application can complete the Ryegrass kill. Any regrowth from autumn Rescue applications can usefully be controlled in the spring.

Autumn treatment

A subsequent autumn treatment may be beneficial to control heavy, well established Ryegrass populations.

Follow-up treatments

Follow up Rescue treatments may be required where new Ryegrass seedlings germinate and establish. A successful over seeding programme and applications of Primo Maxx to encourage a thicker sward will minimise the chance of Ryegrass reinfestation.



What can you expect to see?



Rescue application advice

Rescue can be applied with any conventional amenity golf course sprayer including knapsacks.

Spray water volume

Spray Rescue in 250–500 litres of water per hectare. Ensure good coverage of the target leaf surface, but avoid over wetting that can lead to excessive run-off and reduced efficacy. Syngenta spray trials have shown application at the lower recommended water volumes through appropriate nozzles can improve spray retention on turf leaves, as well as increasing sprayer output per hour for more timely application.

Rescue should not be tank mixed with other plant protection products.

Spray quality

Rescue is approved for application using conventional flat fan nozzles producing a fine to medium spray pattern – typically an 02 to 04 nozzle operating at 2–3 bar pressure. Trials have shown the Syngenta Foliar Turf Nozzle can achieve excellent leaf coverage and enhanced spray retention on the target, with significantly reduced risk of drift.

Visit the Greencast Application Zone at www.greencast.co.uk for further information.

Minimise risk of drift onto non-target areas by spraying in suitable conditions, appropriate nozzle selection or the use of covered boom sprayers.



Knapsack application

Rescue may be applied by knapsack for treating small or inaccessible areas. Achieving satisfactory coverage and spray retention on the target leaf can prove difficult, especially in rough or dense turf situations. Best results have been achieved by mixing 10–13.3 ml Rescue in 2.5–5.0 litres of water to treat 100 sq. m (10 ml per 100 sq. m only in autumn).

Rescue application rates

Rescue Herbicide	Spring treatments	Autumn treatments	Maximum number of treatments
Golf course greens, tees, fairways and rough	1.0–1.33 l/ha	1.0 l/ha	Two per annum
Water volume	250-500 l/ha		
Nozzle type	Flat fan 02 or 04 producing a medium quality spray Rescue is rainfast in 1–2 hours Do not tank mix Rescue with any other products		
Knapsack application	10–13.3 ml/100 sq. m	10 ml/100 sq. m	Two per annum

Sequencing advice with broad leaved weed herbicides

