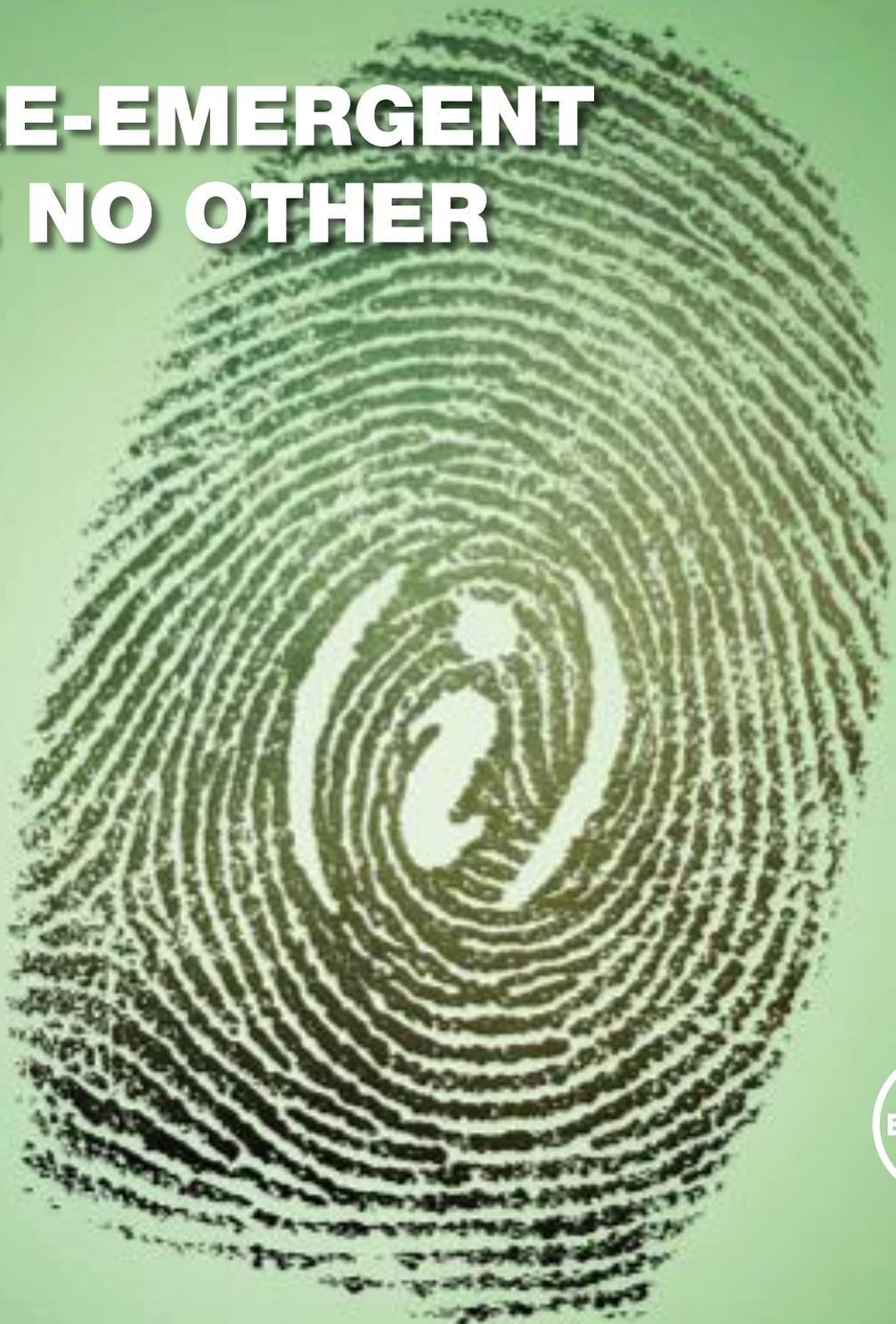




Spect*(i)*cle[®]

Apply less. Achieve more.

**A PRE-EMERGENT
LIKE NO OTHER**





Spect*(i)*cle®

Apply less. Achieve more.



Specticle® is a new and innovative herbicide for warm-season turf that sets a new standard for pre-emergent weed control. It provides up to 8 months of pre-emergent control in warm-season grasses.

Delivering an exceptional level of protection against *Poa annua*, Crowsfoot Grass and Summer Grass, and unmatched use flexibility with a wide application window, Specticle is a great choice as the foundation of your herbicide program.

THE BENEFITS OF USING SPECTICLE

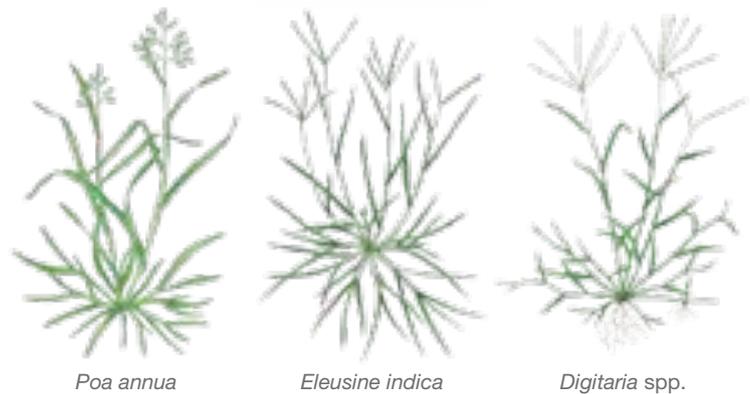
- **Superior turf quality and playability** – a new standard of control of *Poa annua*, Crowsfoot Grass and Summer Grass in warm-season turf
- **Longer residual control** – Specticle outperforms the competition, even in the most difficult conditions, without losing control late in the season, meaning fewer applications and reducing fuel, labour and pesticide costs
- **Easier application scheduling** – the longer residual of Specticle means a wider application window, giving more flexibility to turf managers to select the most appropriate application timing for their operation
- **A significant step for resistance management** – being a new mode of action for turf in Australia Specticle controls weeds, like *Poa annua*, that are known to develop resistance to other commonly used herbicides. This makes it one of the most effective tools in any turf manager's arsenal
- **A significant reduction of herbicide placed in the environment** – an application of Specticle applies up to 40 times less active ingredient per hectare than many competitive products
- **No concern about stains or odour** – Specticle's applicator-friendly formulation will not stain or leave odour behind after application

A new Mode of Action for Australian turf managers

The active ingredient in Specticle, Indaziflam, is a cellulose biosynthesis inhibitor (CBI) and is classified as a Group O herbicide.

Specticle works by inhibiting crystalline cellulose deposition in the plant cell wall, affecting cell wall formation, cell elongation and division. Consequently, actively growing meristematic regions are affected.

Like other pre-emergent herbicides, CBIs do not prevent seeds from germinating. However, once the weed seedlings come into contact with the Specticle barrier, the growth is terminated by inhibiting the development of cells within the roots.



Active ingredient	Brand/s	MOA group
Indaziflam	Specticle®	O
Prodiamine	Barricade*	D
Oryzalin	eg. Embargo*	D
Dithiopyr	Dimension*	D

Address the challenge of weed resistance

There have been no documented cases of resistance to CBI herbicides. Research trials around the world have shown that Specticle controls weeds like *Poa annua* that have become resistant to dinitroaniline (DNAs) and triazine (atrazine and simazine) herbicides.

Specticle has a different mode of action and is therefore a very timely tool to enable effective management of weeds that are resistant to existing pre and post-emergent herbicides. Not only have many of the current pre-emergent herbicides been on the market for many years, they all have the same mode of action.





Specticle Testimonials

In late October 2009, Kevin Baldwin, superintendent of Stoneybrook Golf Club in Bradenton, Florida, applied Specticle herbicide to a two-acre test area to treat his two biggest issues – *Poa annua* and volunteer rye.

“I have tried a number of products in the past for these same issues and could never achieve better than 85 percent control. After just the one application of Specticle, though, I had 100 percent control for the whole season – all the way through April,” he says.

Though there was rain and weed pressure, Specticle still provided control.

“A product of Specticle’s caliber can not only cut my post-emergent spending but also save me budget by reducing the time I, or my crew, need to spend hunting for and retreating weeds that break through,” Baldwin says. “I used Specticle for winter testing, but I know others have tried it for the spring. I would love to be able to incorporate Specticle into a year-round program; it would be a huge value to me. Even if it’s a few more dollars per acre, Specticle makes sense in the long run because of the overall savings it can give me. I cannot wait for it to come to market.”

Specticle has also been a game-changer for Tom Alex, director of golf course management at Orlando’s Grand Cyprus Golf Club.

“Specticle is a game-changer for pre-emergent herbicides. It controlled 100 percent of my weeds, and I didn’t see any yellowing, discoloration or stunted growth. It can’t get any better than that,” Alex says. “I had 365 days of control of winter annuals as well as summer perennial weeds with only two applications. That length of control is what attracted me to Specticle.”

In the future, Alex plans on expanding his Specticle applications to treat many areas on his course due to the broad range of control.

“With the low application rates, I’m able to save in manpower and additional post-emergent chemical costs while supplying great-looking turf for our guests,” he says. “I use many Bayer products, and Specticle is another great addition to the line.”

In Augusta, Georgia, Darren Davenport of Forest Hills Golf Club found Specticle to be the solution to the *Poa* problem he had battled for 11 years.

“I’ve applied every product you can think of to the affected areas and never saw results,” Davenport says. “Last September, though, I applied Specticle herbicide to the seventh fairway, which is the lowest point of the course and an open, wet, grassy area. After just one Specticle application, I saw 95 percent control of the issue. It was amazing.”

Specticle held strong for Davenport through the wet winter and continued to control into spring, while other products he’d used on different parts of the course allowed *Poa* to come through by January. In the past, he had to apply far more post-emergent products to those areas, which added to his costs.

“From what I’ve seen in the past year, using Specticle to control my problem areas will allow me to make fewer applications per year and cut my post-emergent costs by 25 percent,” he says. “This product has exceeded my expectation. Its residual effect was unparalleled, and it’s giving me the control I need, despite fewer applications. Looking forward, I would love to do wall-to-wall Specticle applications for both *Poa* and crabgrass control, supplemented with Ronstar® herbicide, and eliminate my dependence on non-selective, post-emergent products.”





SITUATIONS FOR USE AND APPLICATION RATES			RESTRAINTS
Situation	Weeds Controlled	Rate	DO NOT use on
Turf – golf course fairways only Warm season turf grasses only, including: Bahia grass (<i>Paspalum notatum</i>); Buffalo grass (<i>Stenotaphrum secundatum</i>); Common couch (<i>Cynodon dactylon</i>) and Hybrid couches; Queensland Blue Couch (<i>Digitaria didactyla</i>); Kikuyu (<i>Pennisetum clandestinum</i>); Zoysia (<i>Zoysia</i> spp.)	Summer Grass or Crab Grass (<i>Digitaria</i> spp.) Crowsfoot Grass (<i>Eleusine indica</i>) Winter Grass (<i>Poa annua</i>)	250 mL/ha in 200 to 500 L water per ha	<ul style="list-style-type: none"> • Warm-season turfgrass greens, collars and tees • Warm-season cultivars not listed on the label (without first testing turf tolerance) • Cool-season grasses • Waterlogged soil or when heavy rainfall is forecast within 48 hours after application • Turf that is not well established or in robust, healthy condition • Turf that is to be oversewn within 12 months

Specticle is a suspension concentrate formulation containing 200 grams per litre of the active ingredient, Indaziflam. Specticle is available in 1 litre bottles.



Best Practice Guidelines

The right timing. The proper moisture. The best results.

As a pre-emergent herbicide, Specticle should be applied before weed seeds germinate¹. Best practice is to irrigate with 3-6mm water as soon as practical after application². Adequate soil moisture is needed to activate Specticle and provide maximum control.

Clean-up with caution

The sprayer must be thoroughly decontaminated before being used again to spray susceptible plants or turf. Ensure that the following operation is carried out in an area that is clear of waterways, desirable vegetation and tree roots, and preferably in an area where drainings can be contained.

See *Product Label* for further instructions.

¹ Specticle is not expected to control weeds that have already emerged prior to application or perennial weeds emerging from rhizomes and roots.

² Specticle may affect sensitive grasses downslope from treated areas after excessive rainfall. To minimize effects on sensitive grasses, irrigate after application as directed on the Specticle label. Local conditions such as soil compaction, slope, amount and timing of irrigation or rainfall and sensitivity and growth stage of non-target plant species may affect the severity of damage.



Our mission:
“Bayer: Science For A Better Life”

Bayer is an inventor company with a long tradition of research. By applying science to the major global challenges, we deliver innovations that address unmet customer and market needs.

Bayer is a global leader in providing innovative solutions to pest, weed and plant disease problems in the professional non-crop markets, including the turf and amenity sector.

The company’s product portfolio consists of turf fungicides, insecticides and a range of herbicides. Key brands include Signature[®], Dedicate[®], Interface[®], Tribute[®], Destiny[®], Spearhead[®], Ronstar[®] and Tempo[®] Xtra.

Bayer is committed to sustainable development in sports turf projects to help improve the future quality and management of sports turf. Bayer has first-hand experience at the BayArena stadium in Leverkusen Germany, home to the company’s football team – Bayer Leverkusen, which adds valuable insight into the solutions needed for effective maintenance of sports surfaces.



Bayer

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ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

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