



Spect*(i)*cle[®]

A pre-emergent
like no other



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.



//////////////////// Science for a **better life**



Specticle®

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 control with 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 have developed resistance to other commonly used herbicides. This makes Specticle 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



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

A new Mode of Action for Australian turf managers

The active ingredient in Specticle, Indaziflam, is classified 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.

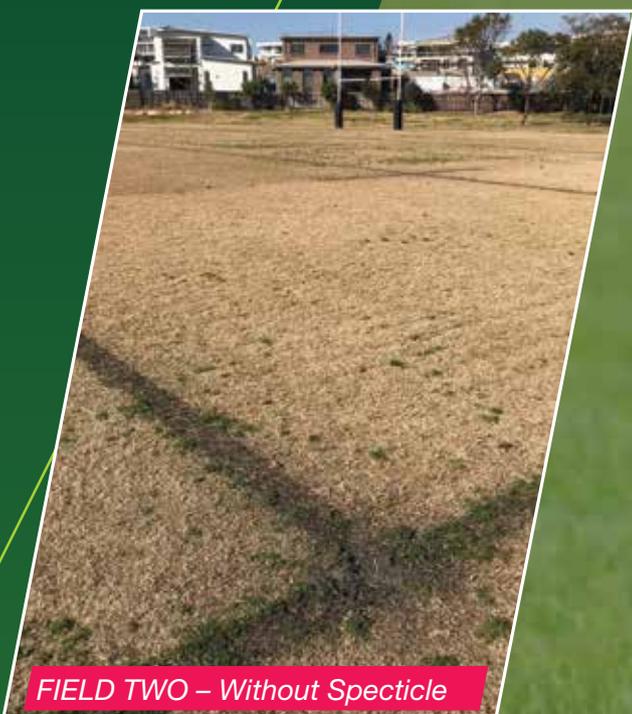
Like other pre-emergent herbicides, Specticle does not prevent seeds from germinating. However, once the weed seedlings come into contact with the Specticle barrier, the growth is terminated by inhibiting the development of cells within the roots.

Apply less

Achieve more



FIELD ONE – With Specticle



FIELD TWO – Without Specticle



Science for a **better life**



Spect*i*cle[®]

Testimonial on using Specticle

In early 2018, Stephen Foster from Green Options, conducted a field trial at the Cronulla Sharks JRLFC. The trial aimed to evaluate an application of Specticle Herbicide for pre-emergent control of *Poa annua* (Winter grass) on a couch rugby league field with a history of significant *Poa annua* infestation each winter.

Stephen applied Specticle to the first field at a rate of 250mL/ha in 400 litres of water. The application was followed up with a light irrigation to get it into the top layer of the profile where most of the *Poa annua* seed sits, and create a really good barrier.

As shown by the photos taken in mid-winter, 2018, the untreated field had a significant infestation of *Poa annua* which required an intense program of post-emergent herbicide applications in the spring. The field treated with Specticle had less than 1% weed infestation, and did not require any spring post emergent herbicide application.

The couch recovery in spring on the treated field was excellent and the minimal high wear areas that needed to be re-laid with turf in the spring established rapidly with excellent root tack down.

"The results were definitely a positive," Stephen said.

"Specticle is second to none! The main benefit of using Specticle was the fact it finds time, i.e. I only needed to do 1 application, which freed up time for me to do other things around the facilities, rather than having to do 3 or 4 applications. I'd definitely use it again. I've also found that the turf has been more tolerant to wear this year, which may be due to the lack of weeds. The health of the couch this year was really good, obviously with the prolonged summer and spraying in April for Winter grass control meant we were flying going into April. It was more slowing the couch down so it wasn't too aggressive going into winter.

"Finding the balance in a program is key. I don't think you can cut corners. If you've got a product like Specticle that helps you find new edges to your program, you're only going to improve and provide a better surface all round. Also, using Specticle saved time and money, which I then could use elsewhere, in other areas – better utilising my budget. I think anytime we are cutting budgets, we are hurting ourselves. It's better to try and use your budget in smarter ways, by finding different ways of being able to stretch it more, then we're only going to get better surfaces and meet our clients' needs. The time you save using Specticle, it's gold! You can't beat it!"

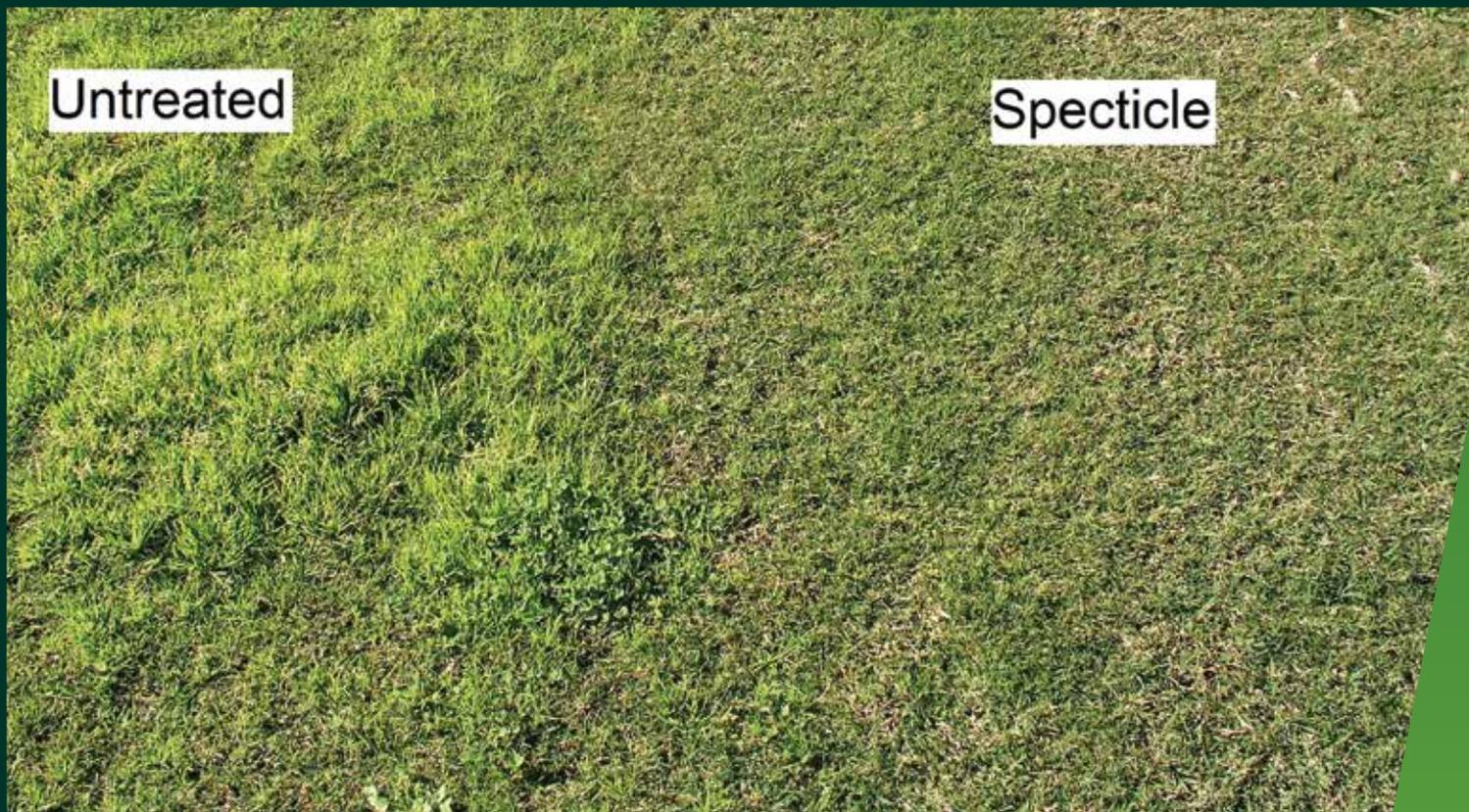
The benefits from the Specticle application in this trial were:

- // a cleaner, more consistent playing surface through winter and spring
- // time saving – with precious resources able to be allocated to other areas of facility improvement



Apply less

//////////////////// Achieve more



Addressing the challenge of weed resistance

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.

There have been no documented cases of resistance to Indaziflam.

Research trials around the world have shown that Specticle controls weeds like *Poa annua* that are suspected to be resistant to Group D herbicides.

//////////////////// Science for a **better life**



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 sprayer clean-up 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.

SITUATIONS FOR USE AND APPLICATION RATES			RESTRAINTS
Situation	Weeds Controlled	Rate	DO NOT use on
General Turf Situations 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	// Turf under stress, or turf that is not well established or in a robust healthy condition // Golf or bowling greens, collars, tees, tennis courts or croquet lawns // Turf species not listed on the label // Cool-season grasses // Waterlogged soil or when heavy rainfall is forecast within 48 hours (golf courses) or 3 days (other turf areas) of application // Turf that is to be oversown or seeded 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.

Trust

the Bayer brand

// Science For A Better Life

Bayer is an international life science company offering innovative products that serve the health of humans, plants and animals.

As an inventor company, Bayer sets trends in these research-intensive areas. Bayer's products and services are developed to improve the quality of life. Bayer is committed to the principles of sustainable development, placing equal value on our economic, environmental and social performance.

Environmental Science, a business unit of the Crop Science Division of Bayer, is a leader in our industry today, and aspires to become a thought leader tomorrow.

Guided by our purpose of "Fostering Healthy Environments where we Live, Work, and Play", we aim to provide to our customers high-quality solutions beyond products, investing in innovation, promoting sustainable development, and strengthening our customer centricity.



ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE

Bayer CropScience Pty. Ltd., Environmental Science Australia,

Level 1, 8 Redfern Road, Hawthorn East, Vic. 3123

Technical Enquiries: 1800 804 479 es.bayer.com.au

Specticle® is a Registered Trademark of the Bayer Group

* Other trademarks