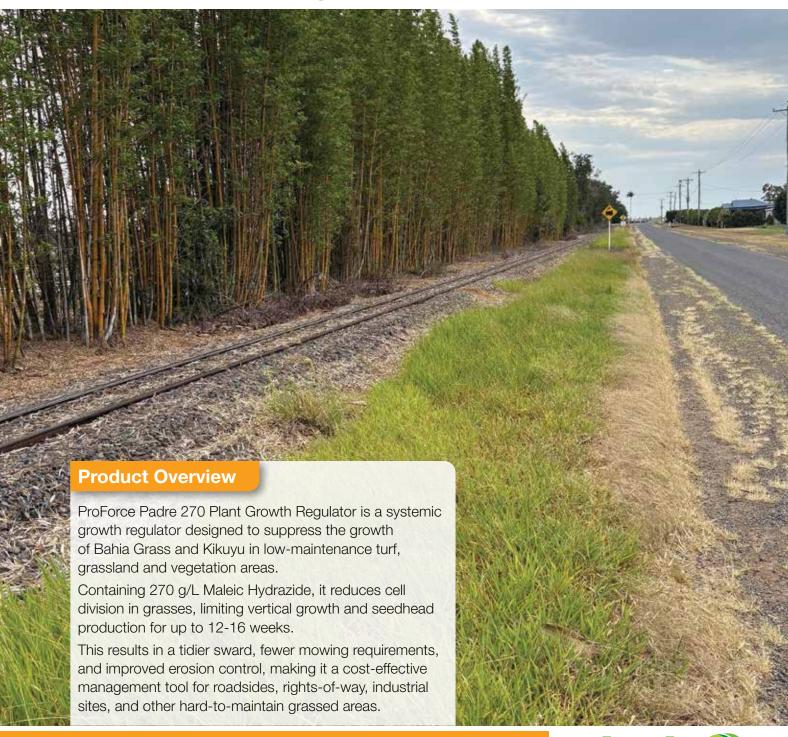
(ProForce® Padre 270

Plant Growth Regulator

Smart Growth Management for Grasslands







Key Features

- Suppresses growth of Bahia Grass, Kikuyu and other grasses for 12-16 weeks.
- > Reduces seed stalks and seed head formation.
- > Minimises mowing frequency in difficult-to-access areas
- > Supports soil stabilisation and erosion prevention.
- > Ideal for hard-to-access and low-maintenance areas.
- > Cost-effective alternative to repeated herbicide applications or mowing.
- > Non-Scheduled Chemistry.
- > Potassium salt formulation for improved plant uptake and utilisation.

Where to Use

- ✓ Low-maintenance grassed & turfed areas
- ✓ Fencelines, roadsides, rail & rights-of-way
- ✓ Industrial & non-crop situations

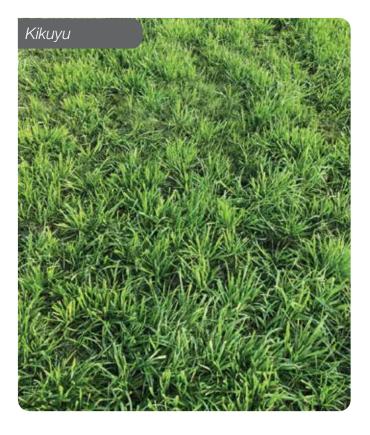
How it Works & Mode of Action

Absorption and Translocation

- When applied as a foliar spray, Maleic Hydrazide (MH) is absorbed through the leaves.
- It is systemically translocated within the plant, moving both upward and downward in the vascular system.
- This allows MH to reach actively dividing cells in shoots, stems, and meristems.

Interference with Cell Division (Mitosis)

- Maleic Hydrazide interferes with the synthesis of nucleic acids (DNA and RNA), disrupting normal cell division (mitosis).
- The result is slower or arrested cell division in rapidly growing tissues such as shoot tips and seed head primordia.



Impact on Plant Growth

- By limiting cell division, vertical shoot elongation and seed stalk formation are suppressed.
- Grass growth is redirected toward stability rather than rapid extension, resulting in:
 - o Reduced mowing frequency.
 - Lower seedhead emergence (aesthetic improvement, less pollen production, reduce weed seed dissemination).
 - o Improved grassland / turf density and ground cover.

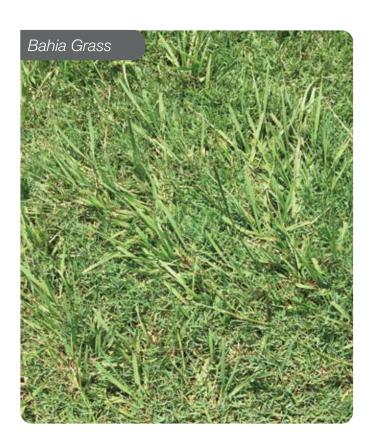
Selectivity and Persistence

- Maleic Hydrazide is selective for certain grasses such as Bahia Grass and Kikuyu where it slows vertical growth significantly.
- Growth suppression typically lasts 8-16 weeks, depending on application rate and growing conditions.

Additional Effects

- By preventing excessive top growth, MH indirectly conserves root reserves and improves grassland & turf resilience in low-maintenance areas.
- Reduced mowing requirements mean less mechanical stress and compaction in treated areas.





Formulated in Australia





ProForce Padre 270 PGR - Use Rates & Label Recommendations

Application Guidelines

- Apply to actively growing grasses free from leaf litter.
- Avoid mowing/slashing within 12 hours before or after application.
- Do not irrigate/rainfall within 24 hours post-application.
- Reapply every 8-14 weeks if needed.

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		RATE			
SITUATION	TARGET	High Volume Spray/100L of water (Handgun)	Spray/ha (Boom)	Knapsack Application/ 100 m ²	CRITICAL COMMENTS
Low Maintenance Grassed and turfed areas, Fencelines, Industrial areas, Non-crop Situations, Roadside, Rail and Rights-of-way	Bahia Grass (Paspalum notatum) Suppression and seedhead control, Kikuyu	600 mL-1.25L	6-12.5 L	60-125 mL	Apply PADRE 270 at least 12 hours before or after mowing and when grass sward is actively growing. As much as possible, avoid rainfall or irrigation for 24 hours post application. Use the lower rates on specified grass species with moderate growth rates where a lower level of growth reduction is required, or when used in a program. Apply rates towards the higher end of the rate range when growth is vigorous or when longer periods of suppression are required. Re-apply at 8-14 week intervals as required. Use of a commercial non-ionic surfactant will assist in providing better coverage and improve translocation. On grass areas, where broadleaf weed growth is a problem, it is recommended to tank mix PADRE 270 with a suitable broadleaf weed herbicide.







Research Highlights - Maleic Hydrazide in

Grassland & Turf Management

Proven Seedhead Suppression

Studies show 70-90% reduction in seedheads of Bahia grass and other roadside turf species within the first 4-8 weeks after application.

Reduced Mowing Frequency

Transportation and roadside research confirms MH can extend mowing intervals and lower maintenance costs in rights-of-way and low-input turf systems.

Duration of Effect

Suppression typically lasts 8-16 weeks, depending on rate, timing, and turf species, with stronger control under spring applications.



Untreated Control
– 12 weeks after application
(17/11/2016)

ProForce Padre 270 +
Trinexapac ethyl 250 EC
- 12 weeks after application
(17/11/2016)

ProForce Padre 270 +
Paclobutrazol 250 SC
- 12 weeks after application
(17/11/2016)

Source

Evaulation of plant growth regulators for the reduction of vegetative growth of grassed roadsides, Peracto, Granton, Tasmania, 2016.

