

Application

Uptake & Movement

- Trinexapac-ethyl is predominantly absorbed by leaves and crowns.
- Rapid uptake ensures rain fastness within one hour.
- Xylem systemicity ensures only upward movement.

Application placement

Placement of Primo MAXX is very important to ensure best results, especially in turf maintained at mowing heights of 15 mm and above. High cut turf has a significant **blocking effect** and often requires higher water volumes to ensure optimal coverage during application.

- Low application volume (<150 L/ha) will tend to place Primo MAXX high in turf canopy – resulting in loss of residual action due to regular mowing (Fig 2).
- Mid range application volumes (~350-450 L/ha) will tend to ideally place Primo MAXX throughout the turf canopy including into the crown – resulting in optimal residual action and performance (Fig 3).
- Optimal coverage can be obtained using spray nozzles delivering medium to coarse droplets (Table 1).

Tank Mixing

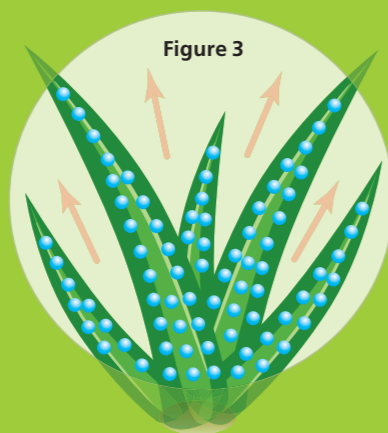
The technology of the Syngenta MAXX formulations ensures the excellent tank mixing capabilities of Primo MAXX. It can be used in tank mixes with most fungicides (all Syngenta fungicides) and most foliar fertilisers.

In some cases turf will appear slightly yellow after the first application of Primo MAXX. This is caused by the

larger older leaves senescing and turning yellow naturally. The fact that the new leaves, under Primo MAXX regulation, are smaller means that the older, bigger leaves (senescing and yellowing) are now more visible. This effect can be masked by adding the recommended rate of an iron based fertiliser or the equivalent of 100-240 g actual N per 100 m² to the spray mix.

Table 1. Optimal spraying parameters for using Primo MAXX

Wind Speed	Nozzle		Water Rate	Pressure	Speed	Droplet Size
	Type	Size				
2-5 km/h	XR TeeJet Hardi Iso Flat Fan	110 04 or 110 05	380-470 L/ha	3 bar	5 km/h	Medium
5-10 km/h	Turbo TeeJet Hardi Iso Low Drift	110 04 or 110 05	380-470 L/ha	3 bar	5 km/h	Coarse



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For further information contact
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making good turf
great

Better Turf Quality

Primo MAXX® is designed to regulate vertical leaf growth and promote a high quality, dense sward of healthier turf for better playing conditions. Primo MAXX treated turf plants continue to grow, just in a different way. Energy and resources normally used for vertical leaf growth are diverted to side shoots, stolons and the root system. Continually treated turf therefore has a bigger and healthier root system which helps the plant to resist the effects of drought, stress and wear. Due to less leaf growth there will be fewer clippings and a noticeably cleaner cut.

Continuous use

Primo MAXX can be continuously and safely used for up to 12 months of the year. **Tracking** the growth rate of the turf with the rate of Primo MAXX applied is essential to manage regulation, economy and expectations of every application (Fig 1).

Example: The first application of spring onto a predominantly couch sward should be at the low end of Primo MAXX rates suitable for couch. As the season progresses and the turf growth accelerates, the Primo MAXX rates can be increased accordingly. In this manner the rate of regulation fits the expectations on aesthetics and economics. Rate **tracking** is an important tool for optimising the use of Primo MAXX at your facility.




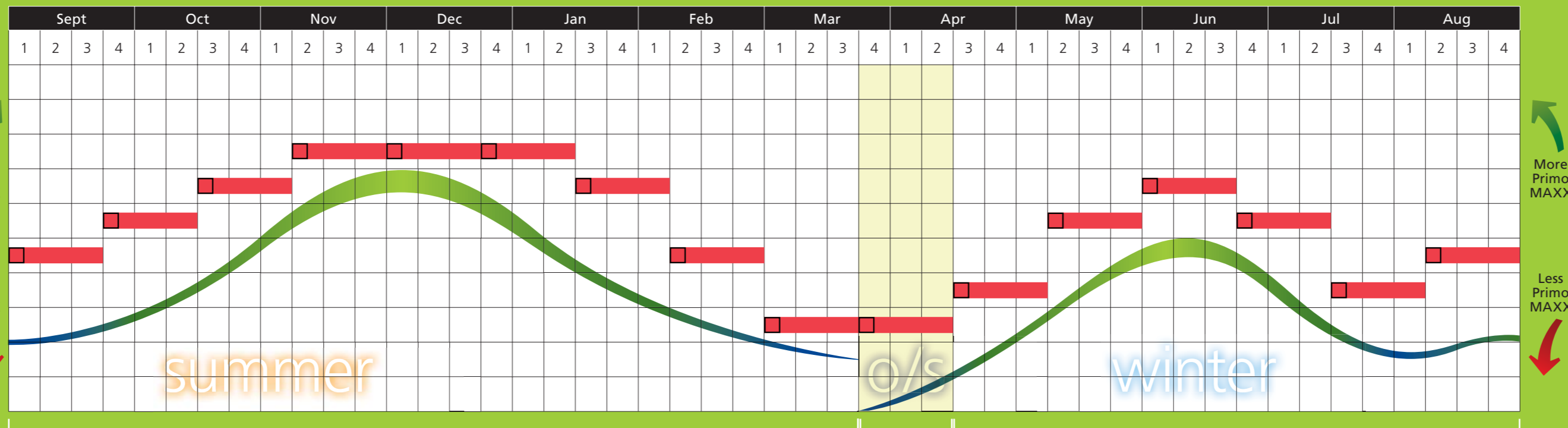
-  Approximate timing for Primo MAXX application
-  Approximate Primo MAXX residual expected (3 weeks in this example)
-  Approximate variations in turf species growth rates

Figure 1. Positioning of Primo MAXX to maximise turf quality in over sown sport fields (Example programme*)



Summer Couch Base

The importance of a strong and healthy couch base is not less important during winter over sowing – the stronger the base going into winter, the stronger it will recover in spring. Primo MAXX can greatly assist in growing a strong couch base for summer playability and winter survival.

Benefits

- Manage the rate of growth – thus managing the rate of fertility use by plants
- Increase the retention and storage of carbohydrates.
- Tightening up the turf stand – stronger stolon base and root system.
- Fight etiolation in shaded areas.
- Precondition during spring and early summer, strengthening turf to better withstand stress and wear.

Over Sowing

Primo MAXX is very useful when applied just prior to over seeding (1-2 days). Primo MAXX will reduce competition from the existing couch and allow ryegrass seed to germinate and establish without excessive competition. Seedlings are unaffected as Primo MAXX is not root absorbed.

Winter Ryegrass

Following over sowing the seedlings should be well established (3-4 weeks after sowing). Applying Primo MAXX to the total sward at this time will help to accelerate good coverage. Further applications will help to optimise the rye sward as a consistent playing surface.

Benefits

- Manage the rate of growth – thus managing the rate of fertility use by plants.
- Tightening up the turf stand – more tillers per plant and a stronger root system.
- Fight etiolation in shaded areas – ensuring better cover.

Invitation from Syngenta

*To have a customised programme developed for your specific requirements, Syngenta invites you to register on the Technical Product Advice Line on 1800 067 108.

Specialised uses

Shaded areas

Grass plants growing in shaded areas tend to overproduce gibberellic acid in an attempt to reach the light – resulting in tall, etiolated growth. The application of Primo MAXX regulates the amount of gibberellic acid produced and will help to minimise these effects, creating a denser, lower growing and healthier sward.

Line painting

Primo MAXX can extend the duration of marking visibility when applied with marking paints. Mix Primo MAXX with water first when using latex-based marking paints. Refer to paint mixing instructions for further details.

Example: Spraying equipment output should be known.

Total area to be painted:

$$\text{Line width (m)} \times \text{total line length (m)} = y \text{ m}^2$$

eg. $0.15 \times 400 = 60 \text{ m}^2$

Primo MAXX rate:

$$y/100 \times 32 \text{ mL}/100 \text{ m}^2$$

eg. $60/100 \times 32 = 19.2 \text{ mL Primo MAXX}$ in enough mix as per sprayer output.

Concert preparation

Primo MAXX has been successfully used, at Australian sports grounds, as part of a programme to both strengthen turf prior to the staging of concert and aid recovery afterwards. Applying Primo MAXX multiple times prior to staging concert events will help turf plants to survive being covered by flooring for up to 10 days (also see section on Shaded areas).

Pre-concert management tips:

- Follow normal nutritional programme.
- Last Primo MAXX application approximately 10 days prior to floor laying.
- A strong, broad spectrum fungicide programme should be implemented to protect stressed turf while under cover.

Post-concert tips:

- An appropriate foliar fertiliser should be applied soon after flooring is lifted.
- A strong, broad spectrum fungicide programme should continue to protect recovering new growth.
- The Primo MAXX programme can recommence 2-3 weeks after, as soon as good recovery and growth is evident.