

## PRIMO MAXX FROM TEE TO GREEN

Use of Primo Maxx across the course has gained the widespread approval of clubs, players and greenkeepers, with key overall benefits seen as:



**CONSISTENTLY SUPERIOR QUALITY PLAYING SURFACES**

**REDUCED MOWING, ESPECIALLY ON FAIRWAYS AND IN ROUGH**

**MORE AVAILABLE LABOUR FOR OTHER COURSE MAINTENANCE ACTIVITIES**

**GREATER ROOTING, DROUGHT TOLERANCE AND SHADE TOLERANCE**

**REDUCED MACHINERY MAINTENANCE AND FUEL COSTS**

#### TYPICAL GREENS PROGRAMME

Turf	Rate	Frequency
Bentgrass	200ml	Weekly
Bentgrass	400ml	Every 14 days
Bermuda	150ml	Weekly
Bermuda	250-300ml	Every 14 days

#### TYPICAL FAIRWAYS PROGRAMME: 8-25MM (WARM SEASON TURF)

Turf	Rate	Frequency
Bermuda & Kikuyu	800 ml-1 litre	Sept, Oct
Bermuda & Kikuyu	1 litre-2 litres	Nov, Dec, Jan, Feb
Bermuda & Kikuyu	800 ml-1 litre	Mar, Apr

#### TYPICAL FAIRWAYS PROGRAMME: 8-25MM (COOL SEASON TURF)

Turf	Rate	Frequency
Ryegrass Mixtures	500ml-1 litre	Every 14-21 days

#### SEMI-ROUGH: 25-40MM (WARM SEASON TURF)

Turf	Rate	Frequency
Bermuda & Kikuyu	500-750ml	Sept, Oct
Bermuda & Kikuyu	750ml-1.5 litres	Nov, Dec, Jan, Feb
Bermuda & Kikuyu	500-750ml	Mar, Apr

#### SEMI-ROUGH: 25-40MM (COOL SEASON TURF)

Turf	Rate	Frequency
Ryegrass Mixtures	500ml-1 litre	Every 14-21 days

#### BUNKER FACES, STREAM BANKS & DAM EDGES

Turf	Rate	Frequency
Bermuda & Kikuyu	500-750ml	Sept, Oct
Bermuda & Kikuyu	750ml-1.5 litres	Nov, Dec, Jan, Feb
Bermuda & Kikuyu	500-750ml	Mar, Apr

Spray every 14 days, 50mm or higher rough - 500ml/ha every 28 days.

**Note: The above are provided as typical Primo Maxx programmes but rates and timings should be adapted to local conditions as appropriate.**

**Recommendation rates for South Africa.**



## THE ULTIMATE FAIRWAYS PROGRAMME LESS WORK MORE PLAY

### HOW DOES IT WORK?

Biochemically, Primo Maxx works by temporarily blocking the production of gibberellic acid within the plant leaf, which effectively limits cell elongation and vertical growth. The result is to shorten the distance between the shoot nodes, leading to more compact growth.

Whilst the vertical growth is slowed, energy in the plant is diverted to boost both root and lateral growth - creating stronger, healthier and denser turf which plays more consistently and, importantly to reduce costs and management, requires up to 35% less mowing.



Primo Maxx course conditioning from tee to green creates consistently better playing conditions demanded by today's golfer.



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# THE BUSINESS OF BETTER TURF

GOLFERS ALWAYS WANT TO PLAY WHERE THE CONDITIONS ARE BEST.

Enhancing the playing experience is crucial to attract and retain payers at golf courses, to assure the financial sustainability of the club.

With golf clubs under intense economic pressure and the increasing tendency for 'nomadic' golfers to move between clubs and courses, it's more important than ever to deliver a high quality playing experience. Attracting membership, visitors and 'pay and play' golfers is critical to the economic success of any golf course. Course quality is key in attracting new players and encouraging existing players to play more often.



## IMPROVE QUALITY AND REDUCE MOWING

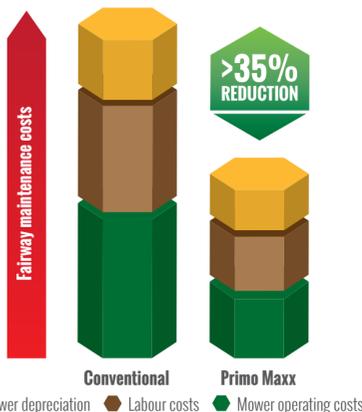
Primo Maxx will regulate growth within approximately one week of initial application - enabling significant reductions in time and costs of mowing and management.

### FAIRWAYS AND ROUGH

On fairways and in play rough, mowing frequency may be reduced by up to 35% with a full Primo Maxx programme.

- ▶ Less time spent mowing - releasing labour for more productive purposes
- ▶ Lower fuel costs
- ▶ Reduced wear and tear on machinery
  - Lower maintenance and repair bills
  - Longer machinery working life reduces capital expenditure
- ▶ Greater flexibility with mowing schedules
- ▶ Cleaner visual finish - with less clumps in wet conditions, better stripes and fewer seed heads

The number one factor players want from a fairway is the ball sitting proud. Primo Maxx creates denser more even sward cover for enhanced ball presentation and play.



### FINE TURF SURFACES

Consistency and trueness of putting surfaces is the most important factor for golfers. Primo Maxx has been shown to create greens that are smoother and stay more consistent.

Fine turf surfaces can continue to be mown as normal, but with the benefit of faster mowing with up to 35% fewer clippings to box off. Alternatively, mowing frequency may be reduced, in conjunction with rolling. Furthermore, with slower leaf growth, playing surface speed and quality will remain more consistent throughout the day.

Experience with Primo Maxx use on fine turf indicates that cutting height may be slightly raised with no loss in ball speed - typically leading to:

- ▶ Reduced stress on plants
- ▶ Lower disease susceptibility
- ▶ Less risk of scalping during mowing
- ▶ Enhanced root mass
- ▶ More consistent green speed throughout the day



## ENHANCE TURF PLANT HEALTH AND IMPROVE DROUGHT RESISTANCE

Primo Maxx promotes healthy plants that are better able to resist the effects of stress and disease, to produce season-long better playing conditions.

- ▶ Better drought resistance
- ▶ Quicker recovery from stress
- ▶ Improved wear tolerance
- ▶ Less stress - healthier turf

Applying a Primo Maxx programme ahead of periods of stress (pre-stress conditioning) makes plants better able to cope with adverse conditions - including drought, water-logging, heavy wear and disease pressure. Not only will turf stay looking good for longer, but also recover faster after stress conditions have eased.

### ENHANCED SHADE TOLERANCE

The effect of shade is to create weakened turf plants that are more susceptible to stress, including wear and disease.

Primo Maxx can help plants compensate for a 75% reduction in light levels, which could transform turf performance in shaded areas. The Primo Maxx blocks the creation of gibberellic acid, which limits elongated growth and breaks the cycle of carbohydrate removal- giving the plants the chance to recover and build up strength.

## PRIMO MAXX DELIVERS:



## APPLICATION AND TIMING

The Primo Maxx programme can be started at any stage when turf is actively growing, but should ideally start at the onset of consistent spring growth. The programme should continue whilst turf is actively growing.

Primo Maxx programmes are best started when you get a period of sustained turf growth. That typically occurs when soil temperatures at five to 10 cm depth reach double digits for at least five days.

You can monitor soil temperatures with a simple digital probe or visit the GreenCast website which includes predicted representative soil temperatures for your area.

As a good practical indication, you can record boxed off clippings each day, to quickly assess when consistent growth has started. Recording clipping yield is also an invaluable guide to growth rates throughout the season, which can help to tailor application rates and timing most effectively.

If higher rates of Primo Maxx are intended to be used in the programme, it is recommended to make the first treatment at a half-rate, and increase to the full rate for subsequent applications.

Rates will also vary depending the grass species and interval of application.

## GRASS SPECIES

Primo Maxx application rates should be tailored to grass species sward composition. Higher rates may be required on aggressively growing Ryegrass fairways, compared to fine turf fine Bent, Fescue and Poa greens.

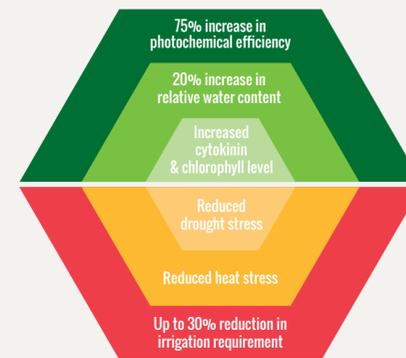
## RECOMMENDED RATES

Typically you achieve more consistent growth and optimise results with lower rates, applied more frequently. For example weekly or fortnightly applications on bentgrass green, typically at 0.2 l/ha.

On tees and fairways a monthly application at a higher rate may be more suitable and practicable with the spraying routine. There is a direct relationship between Primo Maxx application rate and regulatory effect. If turf is growing strongly, it may be more applicable to increase the application rate accordingly, then during periods of slower growth it can be reduced.

## NUTRIENT INPUT AND TANK MIXING

Maintaining adequate nutrition in the root zone for healthy turf growth is essential to get the best results in turf quality enhancements from Primo Maxx. In most situations, a tank mix with an appropriate good quality liquid fertiliser is recommended with each application. Aim to deliver a minimum of 2.5 kg/ha readily available nitrogen with each application.



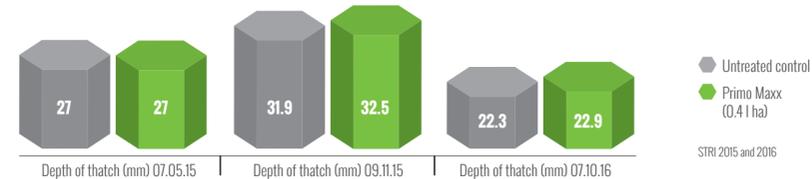
Research has shown that Primo Maxx applications increase the level of bioactive cytokinins within the plant - improving tolerance to heat and drought induced stress. The presence of cytokinins in the plant has been shown to improve turf quality by delaying the degradation of chlorophyll caused by high temperatures and to alleviate leaf browning.

In trials under drought conditions, Primo Maxx enhanced the photochemical efficiency of turf by over 75%, compared to untreated turf. The relative water content of the grass leaves remained a healthy 20% higher than untreated 28 days after treatment.

Primo Maxx is an important part of Integrated Turf Management programmes, creating turf conditions less conducive to disease, including:

- ▶ Reduced soft grass growth most susceptible to Microdochium (Fusarium) infection
- ▶ Raised cutting height reduces stress on the plant and associated risk of Anthracnose, without affecting turf quality and ball speed

### STRI trials show Primo Maxx does not impact on organic matter



## OVER SEEDING AND RESEEDING

Regulating growth of the existing sward during over seeding will reduce the competition and allow the rapid establishment of newly germinated seedlings.

UK trials have shown for optimum results Primo Maxx should be applied to the existing turf five days prior to over seeding. Time applications on turf that is already in a Primo Maxx programme to coincide with over seeding. Primo Maxx has no detrimental effects on seed germination.

Full Primo Maxx programmes can recommence when new seedlings reach the two true leaf stage, to encourage rooting and dense growth.