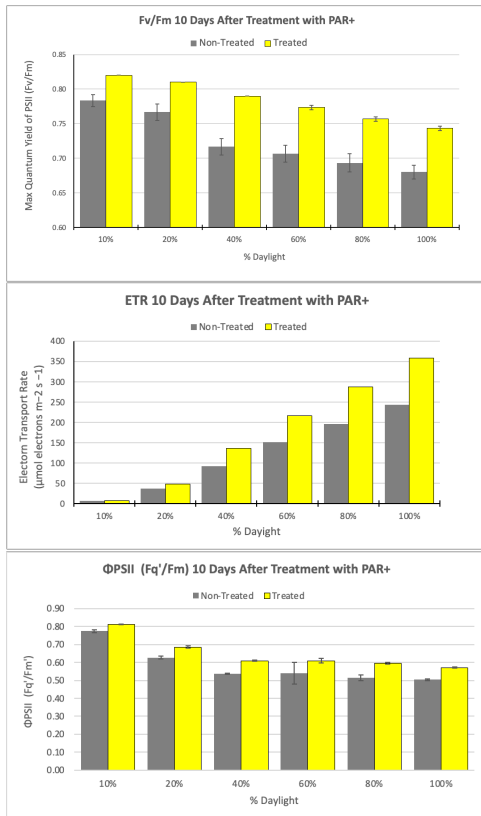


Increases photosynthesis in turfgrass surfaces

A natural plant extract that enhances photosynthesis and increases antioxidant production in turfgrass plants.

Boosting the rate of photosynthesis is a powerful tool in modern turfgrass management by increasing turfgrass vigour, resilience, stress tolerance, efficient nutrient use, plant growth and playing surface quality. **PAR+** is proven through trials at the University of Nottingham, Sutton Bonington plant research centre.



Fv/Fm measures the potential maximum efficiency of PSII photochemistry, a good indicator of overall photoinhibition or chronic stress. Photosynthesis becomes less efficient the higher the light intensity. This chart shows that **in all light levels** PAR+ treated turf (yellow bars) had a higher maximum efficiency of photosynthesis than non-treated turf.

The Electron Transfer Rate (ETR) provides an estimate of the rate of electron transport through PSII, i.e. the speed of photosynthesis. Lower ETR values suggest that photosynthetic electron transport is being inhibited due to stress. The chart shows that 10 days after treatment with PAR+, treated turf (yellow bars) had a consistently higher ETR than non-treated **at all light levels**.

ΦPSII measures the efficiency of PSII under real-world lighting conditions. Lower values suggest that the plant is less efficient at converting light into chemical energy. This chart shows that PAR+ treated turf (yellow bars) is more efficient at converting light into chemical energy **in all light conditions**, i.e. the plant produces more energy for carbohydrate production.

PAR+ has been proven to convert more light into energy and to increase antioxidant production, which results in:

- increased plant metabolism for healthier growth in all conditions
- strengthened defenses against damaging Reactive Oxygen Species
- helps the plant to mitigate the effects of low and excessively high light, heat, cold, salinity and drought conditions.

Application Guidelines

Dilute 1L of liquid in 300 liters of water per hectare of turfgrass surface.

Apply every four weeks *through the year*.

PAR+ can be tank mixed with other fertilisers and biostimulants as appropriate.

Storage Store unused cartons of **PAR+** in a cool, dry environment.

Contact us now for more information

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