



## Agripower Silica Fertilisers for Turf

Agripower Australia owns a unique deposit of high grade amorphous silica, from which it produces high quality silicon fertilisers at its state of the art manufacturing plant in Northern Queensland.

Agripower Australia has recently released its granular Silica turf fertiliser range into the Australian market providing a readily available source of silicon (Si), improved plant uptake of other nutrients and reduced leaching of nutrients into water courses.

Many turf substrates appear to have a high Si content, but plants can only adsorb Si in the plant available form - Plant Available Silicon (PAS).

Likewise many fertilisers may claim to have high Si levels, but in reality have negligible PAS. When measuring turf substrate Si levels, it is important to measure the PAS <sup>1</sup> levels to get an accurate indication of what Si is available to the plant.

<sup>1</sup>PAS is measured using the 0.01M CaCl<sub>2</sub> extraction method at an extraction ratio of 1:100.

**The importance of Silicon (Si) in turf cannot be underestimated and has been proven to ;**

1. Improve the structural, presentational and playing characteristics of turf.
2. Strengthen plant resistance to pests and diseases by improving the structural strength in plant cell walls.
3. Alleviate environmental stresses such as drought, salinity and metal toxicity

**Agripower Silica Turf Fertilisers are unique, they;**

- Contain very high levels of Plant Available Silicon
- Are available in two granule sizes 2-4mm and 1-2mm greens grade.
- Are immediately available when watered, ensuring no fertiliser loss.
- Are dust free and can be easily applied through standard fertiliser application equipment.
- Have no phytotoxicity effects when used as directed.
- Are 100% natural and accredited by Australian Organic (ACO), OMRI listed in the USA and are certified with the Soil Association (E.U.).
- Are non-hazardous and are extremely safe for humans, for animals and for the environment.

## AGRIPOWER SILICA TURF FERTILISER TRIAL

### Trial Objective

To evaluate the effect of different rates of Agripower Silica Turf Fertiliser on the performance of turf and nutrient uptake.

### Trial Location

ANZ Stadium Sydney. The grass type comprised an underlying base of couch grass oversown with ryegrass.

### Trial Design

Agripower Silica Turf fertiliser was applied at 25 g/m<sup>2</sup> on the 31<sup>st</sup> January and 11<sup>th</sup> March (total of 50 g/m<sup>2</sup>).

NDVI readings, Plant Available Silicon and Potassium Levels were measured in the soil and plant tissue on 31<sup>st</sup> January, 11<sup>th</sup> March and 8<sup>th</sup> April.

### Results and Comments

The application of Agripower Silica Turf Fertiliser increased the Plant Available Silicon and Potassium levels in the soil and the plant tissue. Increased Silicon in Plant tissue will improve the structural strength and playing characteristics of turf and strengthen the plants resistance to pests disease and environmental stresses. NDVI readings were not significantly different indicating that Agripower Silica Turf Fertiliser did not retard growth.

### Mode of Use

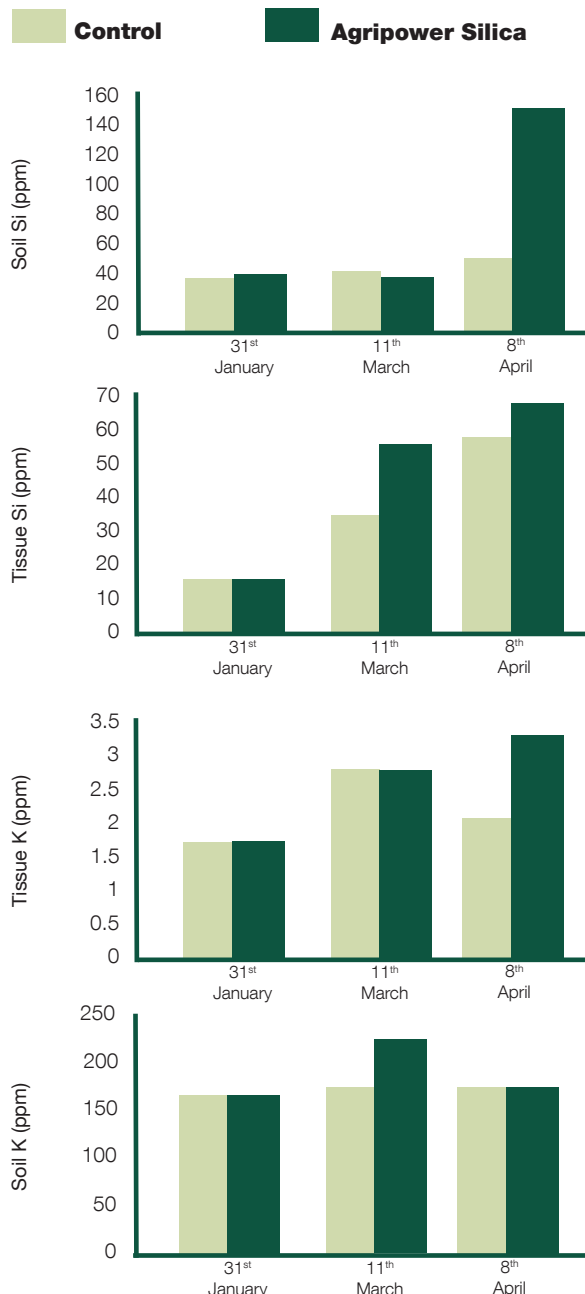
Apply Agripower Silica Turf Fertiliser at 25-100 grams /m<sup>2</sup> (250-1,000kg/ha). Apply as often as required.

Agripower strongly recommends testing<sup>1</sup> for Plant Available Silicon prior to application.

Agripower Silica Turf Fertiliser can be topdressed as part of a regular fertiliser program. For renovation we suggest using SIRA .

**Available in 20 kg bags , bulk bags and loose bulk**

**Agripower are also developing a Suspension Concentrate fertiliser**



Certified by ACO  
(Australian Organic)  
as an input into  
organic Agriculture



Listed by OMRI  
(third party certifier of  
the National Organic  
Programme USDA)



Accredited by FIFA  
(Fertiliser Industry  
Federation of Australia)



Certified by Soil Association  
(European Union)  
as an input into  
organic Agriculture



Accredited Product  
of Australia



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