



Foliar Fertiliser



Silicon

'plant repair therapy' – targeted, efficient and effective.

Features and Benefits

Quality manufacture using superior materials to formulate reliable, stable and trusted products with the highest level of quality control.

Bypasses soil deficiency by applying the most efficient method of delivering the plant's immediate nutrition needs through the leaf.

Fixes plant nutrient deficiency as it reduces silicon requirements from the soil, instead delivering them through the leaf.

Improved leaf erectness and stem strength and aids the control of iron and manganese toxicity.

Reduced lodging because of the improved cellular structure of the plant.

Easy application and compatibility with immediate plant uptake and proven compatibility with a wide range of crop protection chemicals.

Handles environmental conditions better because it gives the plant more energy to deal with environmental stresses associated with inadequate rainfall, changing weather patterns, variations in soil, pests and other external conditions.

Silica Plus is a single element foliar fertiliser delivering high quality silicon to the plant through the leaf when a silicon plant disorder is recognised and established. Foliar application is the most efficient and effective way to deliver silicon to the plant as it bypasses the soil hurdles by delivering the remedy directly to the crop through the leaf.

Silica Plus fixes plant silicon (Si) deficiency which is caused by insufficient silicon in the soil to play its part in the physiology of the plant. It is instrumental in improving plant strength and yield.

Whilst the need for silicon (Si) for higher plants remains questionable, its role as a beneficial element in improving plant growth and yield and increasing plant resistance to fungal diseases is amply demonstrated. Application of silicon fertilisers is common in crop production especially in small cereals like rice, as well as in sugarcane. These silicon accumulator plants contain up to 10% silicon in their dry weight (more than any essential nutrients) thus depleting soil available silicon.

Silicon in rocks ranges from 23% to 47%. Upon weathering, rock releases silicon dioxide which in soil solution is dissolved as silicic acid (H_4SiO_4) in acid soils or silicate salts.

Deficiency of silicon in plants occurs when uptake of silicon is more than the rate of release of silicon from soil minerals. Secondary silicates such as clay minerals and biogenic silicon of plant remains (e.g. diatoms) also contribute to silicon supply pool for plant uptake.

Absorption of silicic acid by roots can be passive or active. Some plants like radish, tomato, onion, capsicum and coffee accumulate silicon more in root than shoot.

Silicon that is transported to shoot incorporates into organic compounds of the cell wall (lignin and polysaccharides), strengthening the cell wall structure with reduced lodging, better physical resistance to entry of spores and mycelium of fungi and more resistance to aphids and borers to penetrate and feed on leaves when silicon is impregnated in the cell wall in sufficient amounts.

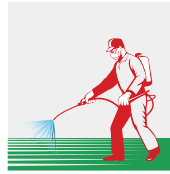
Silicon is also attributed to lowering toxicity of heavy metals by their oxidation or tying of the heavy metals to silicate anions in cell wall. Silicate can improve crop yield when the phosphorus level is suboptimal.



METHODS OF APPLICATION



**Foliar Fertiliser to
Spray onto the
Crop Leaf**



Manual Application



Machine Application



Rain Safe in 2 hours

APPLICATION GUIDE

Specific Rates

Crop Type	Carrier Rate Litres/hectare	Application Rate (Litres/hectare)
Wheat (all Cereals)	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)
Corn	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)
Canola	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)
Dryland Pasture	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)
Hay	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)
Fodder Crops (oats, millet, sorghum, turnip and other forage brassicas)	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)
Fruit trees and Vegetables	1L to 50L to 1L to 100L	2-6 Litres/hectare (L/ha)

Note :

2-3 weeks is required before foliar application can be repeated

Recommended Timings

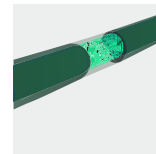
Crop Type	Number of Applications Minimum Preferred	Timing for Application
Wheat (all Cereals)	1 to 2 times	Good canopy formation into grain filling (avoid anthesis)
Corn	1 to 2 times	Good canopy formation into grain filling (avoid silking)
Canola	1 to 2 times	Good ground cover to early flowering
Dryland Pasture	1 to 2 times	Good ground cover after each grazing in winter or early spring
Hay	1 to 2 times	Good ground cover when shut for hay or silage
Fodder Crops (oats, millet, sorghum, turnip and other forage brassicas)	1 to 2 times	Good ground cover and after each grazing when re-growth is expected
Fruit trees and Vegetables	1 to 2 times	Good ground cover and after each grazing when re-growth is expected



**Fertigation
via Irrigation or
Sprinkler Systems**



Manual Application



Irrigation Systems



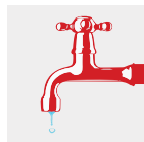
Watering Systems

Crop Type	Litres / ha per Irrigation	Number of Applications per season / year
Young Vines, Olives and Citrus trees	10 Litres	Bimonthly to monthly
Mature Vines	20 Litres	Bud burst and before flowering
Mature Olives & Citrus trees	20 Litres	Before flowering and post harvest
Other mature Fruit Trees	20 Litres	Up to flowering and after harvest
Vegetable Crops	20 Litres	Early vegetative growth and as required
Irrigated Pastures	20-30 Litres	After each cut or grazing or as required

HOW TO MIX



**Shake
Vigorously**



**Mix
with Water**



**Mix with
other Chemicals**



PRODUCT COMPATIBILITY + JAR TESTING

DO NOT mix with alkaline copper fungicides or inoculants. DO NOT mix with acid products. If you are unsure, we recommend a simple jar test of products. Mix together and check if reaction occurs.



PRECAUTIONS

Non-toxic product. Avoid unneeded contact. Keep out of the reach of children. If contact is made with eyes, immediately rinse with plenty of water. If swallowed, seek medical attention.

ANALYSIS AND PRODUCT ASSURANCE

RLF



Australian-owned Formulator, Manufacturer and Supplier of High-analysis Broad-spectrum Liquid Fertiliser technologies. For over 25 years RLF's products have been used by millions of farmers and growers world-wide. ISO 9001 Quality Assured Company since 1998.



MACRO NUTRIENT

Potassium (as K₂O)

MICRO NUTRIENT

Silica (as SiO₂)



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