



Calcium silicates are emerging as one of the most effective sources of Silicon in agriculture. The benefits of Silicon include the enhancement of soil fertility, improved plant resistance to diseases and pests, and increased photosynthesis and chlorophyll formation.

### Why add Calcium Silicate?

Calcium silicate stimulates plant root growth as well as producing stronger and thicker cell walls. This increases the plant's natural ability to tolerate abiotic stresses such as frost, drought and salinity to name a few.

Calcium Silicate also assists and increases the plant's natural ability to resist plant diseases and insect attack.

After application, some growers have observed

- ✓ Flinders Calcium Silicate has stimulated root growth producing stronger and thicker stems, leading to higher yield in crops.
- ✓ We find growers commenting that "the crop just looks healthier"
- ✓ Reduced plant stress from waterlogging in the rains of 2021/2022
- ✓ Flinders Calcium Silicate also helped condition the soil making it easier to work. Replacing the need for additional gypsum or lime.
- ✓ We have growers using the Calcium Silicate on soils that crust badly - they are "Sugar coating" after seeding and watering it in. They are getting increased and more even germination results also saving money not having to keep the soil wet/soft till the seed emerges.

### Other benefits of Flinders Calcium Silicate

- ✓ Promotes upright growth which assists in preventing lodging.
- ✓ Also assist with heavy metal and aluminium toxicity
- ✓ Increases the plants natural ability to tolerate abiotic stresses such as frost, drought and salinity. Calcium Silicate as well as assisting the plant's ability to resist biotic stresses like diseases, insect attack.

### What is Flinders Calcium Silicate?

Flinders Calcium Silicate is refined from a 100% sustainable and recycled material. There are no substances that will contaminate the soil. (SDS available).

Flinders Calcium Silicate is a unique product having up to 270kg of silicon and 140kg of calcium per tonne.

Flinders Calcium Silicate is assisting growers with improved plant health and increased yields in many crops like sugar cane, turf, lucerne, macadamias, avocados and cotton to name a few. What about yours?



Flinders Calcium Silicate is produced in two grades

### Coarse

Previously known in the market as Mineral Mulch, Flinders Calcium Silicate coarse is a milled product with over 95% of particles passing a 14mm screen. This product is used by incorporating into soil prior to planting in field crops. In tree and vine crops this coarse product is applied prior to the application of compost for best results.

### Fine

is similar to the consistency of Gypsum or lime and spread the same way with a belt spreader. It can be incorporated into the soil prior to planting or spread over the top of the soil and irrigated/rained in.

Flinders Calcium Silicate is not just being used for its plant growth and health benefits. It is also an economically viable substitute for Gypsum or Lime in soil conditioning applications. Our Agronomists can assist with customised application rates for your soil.

### When did you last apply agricultural silicon?

Flinders Calcium Silicate is being regularly applied by many growers in the Greater South East Queensland region. Call 1300 985 988 or visit [flindersagriculture.com](http://flindersagriculture.com) to contact one of our field agronomists to discuss how Flinders Calcium Silicate could work for you!

Flinders Calcium silicate is one of the most plant-available and economical sources of agricultural silicon.



Due to its stress relieving properties Calcium Silicate is like Valium for your crops

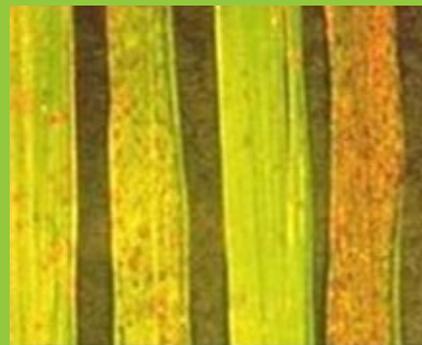


### How and when to apply

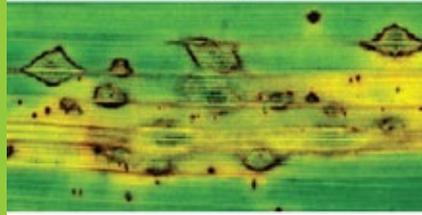
Flinders Calcium Silicate can be spread and combined prior to planting in most field crops, or can be added as a post-plant side dressing for trees and vine crops.

As with all other soil nutrients like NPK's fertilisers, Silicon is lost with constant crop removal and weathering. It is therefore recommended to be applied every 12 to 18 months depending on crop requirements.

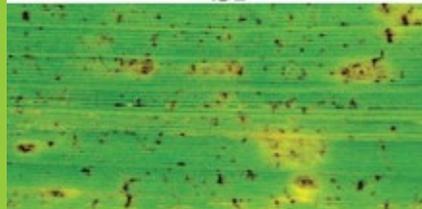
### SIGNS OF SILICON DEFICIENCY



- Si



+ Si



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