



Adermatt

Madumbi



AgriSil[®] K50

Reg. No. B3756, Act 36 of 1947

Bio Crop Protection | Root Health | Plant Vitality



AgriSil® K50

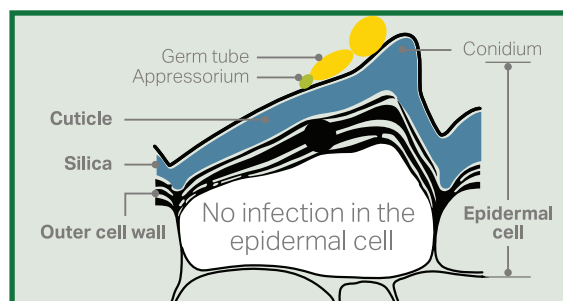
AgriSil® K50 is a registered trademark of PQ Corporation.
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A potassium silicate-based liquid fertiliser for silica supplementation in all crops.

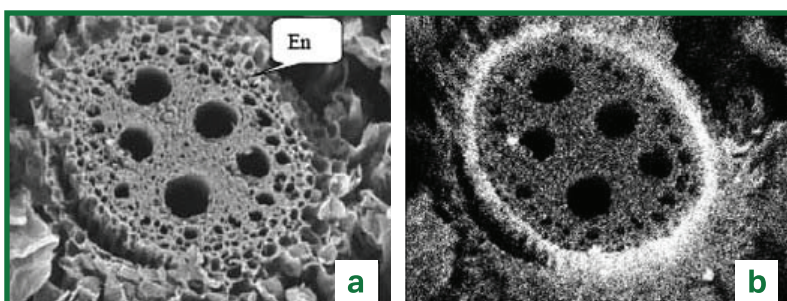
Why use AgriSil® K50?

| Features | Benefits |
|--|---|
| An extremely soluble plant available form of silica. | Efficient uptake of silica with results achievable at comparatively low application rates. |
| Silica strengthens plant cells. | Improved cell strength results in improved crop quality (e.g. reduced lodging in barley, shelf-life of flowers/fruit, etc.). Improved crop tolerance to abiotic stress, (eg. heat/cold/drought) and related crop losses, (eg. physiological fruit drop). |
| Silica deposits around vascular tissue support vascular functioning. | Improved water use efficiency and better translocation of nutrients can result in better yield, especially under stress conditions. |
| Silica is a 'catalyst' of natural resistance responses in plants. | Improved natural resistance to a wide range of pests and diseases making AgriSil® K50 an ideal partner in any IPM program. |
| Agricultural input with no MRL limits. | AgriSil® K50 can be applied up to and during the harvesting period. |

How does AgriSil® K50 work?



Silica can be deposited below the cuticle forming a mechanical barrier between the plant and its environment.



Silica deposits (far right) help reinforce the vascular bundles keeping them open and leading to more efficient transport of water and nutrients.

Silica also acts as a 'catalyst' of natural plant resistance mechanisms. This means that where there is sufficient silica available to the plant, resistance responses are more complex and occur quicker.

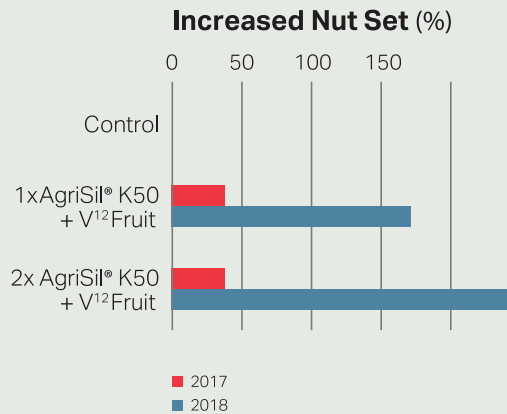
***NB** - AgriSil® K50 does not function as a pesticide in any way as it has no direct effect on any pest or disease. It simply helps activate and enhance the plants own natural resistance mechanisms.

Trial data

Silica reduces stress resulting in improved fruit retention on fruit/nut crops

Figures right: The use of silica helps improve stress tolerance. In this particular trial (Macadamia) the improved stress tolerance resulted in a reduction in physiological drop and improved nut retention.

Data from a trial report by Subtrop Research (E. Joubert, 2018).



Reduces cold stress tolerance

Images right: Banana plants subjected to cold stress for 4 days at 4 °C. The right plant treated with AgriSil® K50 prior to stress illustrated greater tolerance to cold.

Work done at UKZN.

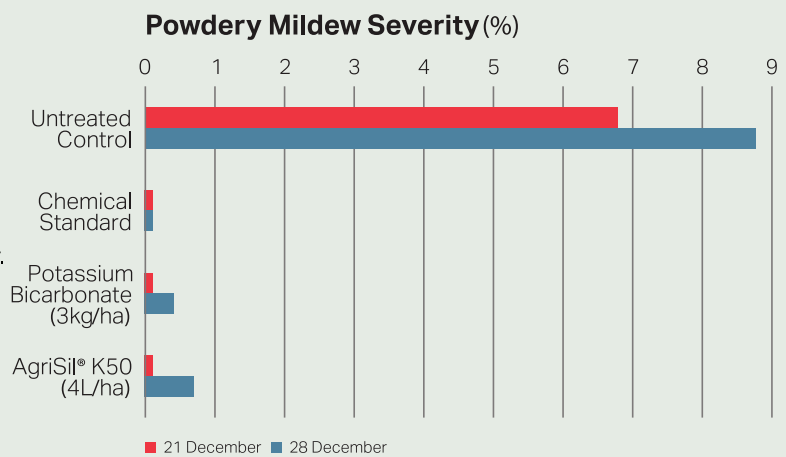


Silica improves natural resistance to pests and diseases

Figures right Silica supports the plant's natural immunity to pests and diseases. In this trial, on Crimson Seedless grapes, improved resistance resulted in a reduction in powdery mildew severity. This makes AgriSil® K50 an ideal addition to IPM programmes.

ASC Research (2017).

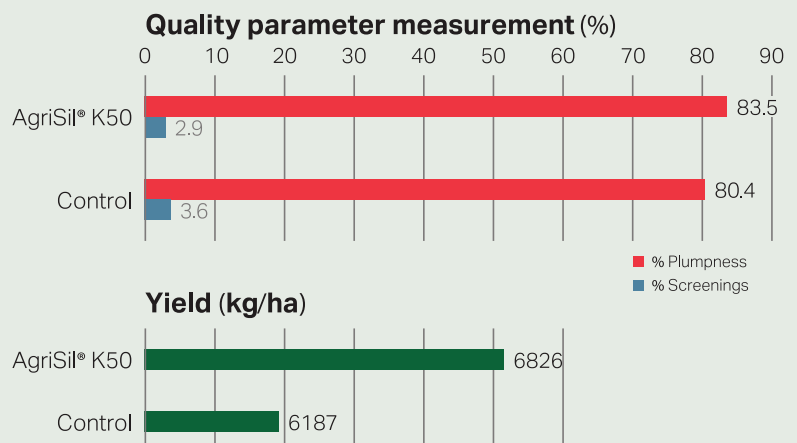
Note: AgriSil K50® is not a fungicide, the response seen in this trial is purely a result of improved natural resistance.



Improved grain quality and yield in barley

Figures right: AgriSil® K50 improves stress tolerance in barley. In this particular trial this resulted in improved grain quality parameters and yield.

Data from SAB agronomy trials (B. Erasmus, 2015).



Application instructions:

| Crop | Method | Dose rate |
|---|------------------------------------|---|
| Row crops (maize, wheat, etc.) | Foliar spray or through irrigation | 0.5 L/ha to a maximum of 5 L/ha depending on the crop. Please refer to the registered label for further details. |
| Vegetables and small fruit (e.g. berries) | Foliar spray or through irrigation | |
| Tree crops and vines | Foliar spray or through irrigation | |
| Nurseries and hydroponics | Through irrigation water | |

Available in packs: 1 L, 5 L, 20 L and 1000 L

- AgriSil® K50 is highly alkaline (pH >11) and as such can cause compatibility problems related to this high alkalinity.
- Buffering agents – Not all buffering agents are compatible with AgriSil® K50. Check for compatibility before making large tank mixes.
- Silica salts in general are highly reactive. Avoid mixing with products containing salts of magnesium, calcium, zinc and aluminium.
- Always conduct a jar test before mixing product or consult your distributor.
- Always dilute AgriSil® K50 with water before adding to the tank mix.

Marketed and Distributed by:




Manufactured by:



Healthy Food and Healthy Environment, for all

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