



Eckosil Shield

Improve plant function and mechanical strength



Improve plant function



Reduce abiotic stress & increase water efficiency



Mitigate salinity stress



Strengthen cuticle barrier



Reduce heat stress and sunburn

Labelled Crops

- All Crops

Low Use Rate

Tank Mix Friendly

Application Methods

- Aerial
- Ground
- Soil
- Chemigation

Crop Finish

- Leaves no visible residue

Regulatory

- MRL Exempt

Eckosil Shield Cuticle Enhancer is a soluble Ortho-silicic acid formulation specifically designed to alleviate crop abiotic stress, heat stress, and increase photosynthesis. It helps to reinforce plant cell walls, creating stronger plants with greater tolerance towards abiotic stress, reduced sunburn potential, and improved light absorption which leads to greater crop quality and marketable yield.

How Does It Work?

Eckosil Shield is quickly absorbed and incorporated into cell walls improving heat, drought and cold tolerance by improving osmoregulation and reducing transpiration. The added mechanical strength and improved high temperature functioning makes the crop/fruit less susceptible to sunburn through internal heat dissipation and reduced heat-induced oxidative stress. Improving high temperature plant function enables important nutrients like calcium to move extensively throughout the plant and to the correct tissue.

Optimize fertility through improved water quality and delivery, physical properties, and chemical properties.

Heat Stress

Heat stress can be particularly challenging as it restricts leaf development, flower development, and photosynthesis in plants. Temperatures much above 90 °F cause plants to virtually cease their metabolic functions, because water is lost through transpiration faster than it can be replaced via the plant's root system. This results in harmful increases in intracellular mineral concentrations that inhibit plant functions.

For best results: Apply 2 times at Tillering stage and early Boot stage

Heat Stress Reduction: Begin applications 10-15 days in advance of anticipated heat or abiotic stress.

Salinity Stress: Apply during increased salinity periods or to crops grown on saline soils. Reduces damage from excess sodium and heavy metals.

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Improve plant
protective properties