








# Eckosil Shield

## Solar protectant and abiotic stress solution, to reduce sunburn, scald, and improve plant performance under heat stress conditions

-  Reduce heat stress and sunburn
-  Reduce abiotic stress & increase water efficiency
-  Mitigate salinity stress
-  Improve plant function
-  Strengthen cuticle barrier

### Labelled Crops

- All Crops

### Low Use Rate

- 8-16 per acre

### Tank Mix Friendly

### Application Methods

- Ground
- Aerial
- Soil
- Chemigation

### Crop Finish

- Leaves no visible residue

### Regulatory

- MRL Exempt

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Eckosil Shield Cuticle Enhancer is a soluble ortho-silicic acid formulation specifically designed to alleviate crop abiotic & heat stress and sunburn. It helps to reinforce plant cell walls, creating stronger plants with greater tolerance toward abiotic stress, reduced sunburn potential, and improved light absorption which leads to greater crop yield and quality. Eckosil Shield also improves crop quality, finish, firmness, color, and reduces micro-fractures and post-harvest disorders, for higher 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 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.

### 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 8-16 ounces per acre prior to heat event and repeat every 10-14 days as needed

**Application Interval:** Treat every 10-15 days, spray when protection is needed

**Sunburn Prevention:** Begin applications 15-30 days in advance of anticipated heat or abiotic stress.

**Salinity Stress:** Apply during increased salinity periods or to crops grown on saline soils

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A better way to  
reduce stress and sunburn