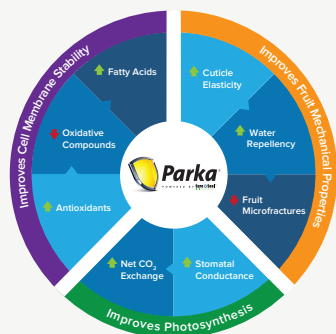


Parka® Crop Cuticle Supplement

PREVENTING SUNBURN AND INCREASING CITRUS QUALITY GRADES WITH PARKA®

Parka® powered by Sure Seal™ biofilm technology is the only proven plant health solution that enhances the citrus and leaf cuticle. Through three modes of action, the residue-free formula strengthens the fruit's first layer of defense against environmental stressors all season long to minimize the opportunity of poor quality grades and yields.

By expanding the plant's antioxidant capacity, anthocyanin concentration and key components of photosynthetically active tissue, the supplemental bilayer enables citrus to use excess light energy for photosynthesis rather than developing sunburn.



MODE 1: Fruit Mechanical Properties

Parka enhances the existing plant cuticle by sealing microfractures and forming a barrier to unwanted moisture and pathogens.

MODE 2: Cell Membrane Stability

By minimizing production of negative oxidative compounds, Parka preserves fatty acids resulting in stronger cell membranes.

MODE 3: Energy Conversion

Photosynthetic activity is optimized with heightened leaf stomal activity and net CO₂ exchange, allowing for plant use of solar radiation.

Sunburn Protection With Parka

- Citrus is highly susceptible to irreversible solar damage that has significant economic impact for growers.
- Heat stress intensifies phenomena such as June-drop throughout the growing season.
- Fruit sunburn symptoms can range from light bleaching to dark necrotic spots accompanied by cell death.

KEY FEATURES AND BENEFITS:

- Proven to minimize sunburn damage by up to 35%.
- Enhances the fruit and leaf cuticle with a clear, hydrophobic lipid bilayer that protects against UV radiation.
- Reduces the opportunity for the flattening of fruit or dry, material skin changes.
- Reduces fruit drop which positively impacts yield.

Yielding Higher Fruit Grades

The importance of fruit size as a quality parameter has significantly increased in recent years. It has become as crucial as yield in the determination of profitability for growers. High temperatures and drought have severe impact on pack out by limiting plant photosynthesis and CO₂ assimilation.

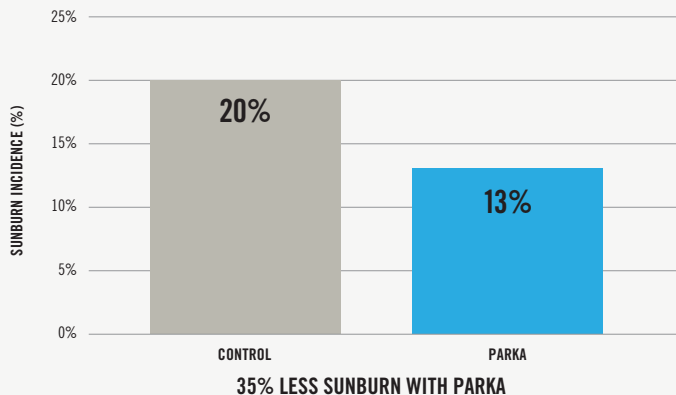
Parka has shown to increase marketable yield and the percentage of citrus graded in the Sunkist quality category.

ADDITIONAL BENEFITS:

- Leaves no visible residue while exempt from maximum residue levels.
- Allows for subsequent application of insecticides and fungicides.
- Easily tank mixed with foliar nutrients and pesticides to fit into any program.
- Excellent worker safety profile.
- No pre-harvest or worker re-entry intervals.

Sunburn Reduction

AVERAGE SUNBURN ON CITRUS



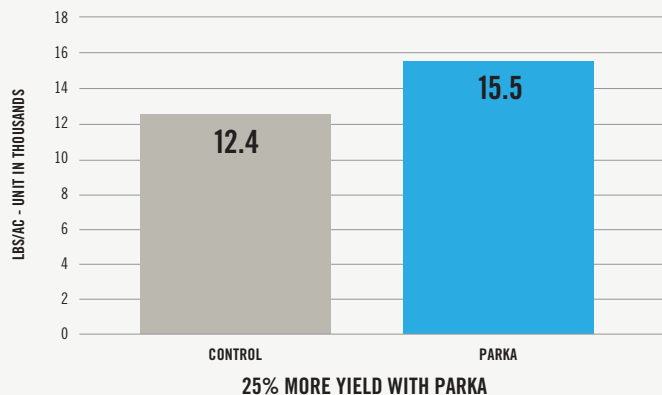
Varieties: Cara Cara, Sumo, Clementine **Rate:** 0.5-1 gal/ac

Applications: 3-6 applications starting in spring/early summer, +21-30 days

Location: California, USA **Source:** Average of eight replicated trials, 2020-2023

Yield Increase

YIELD ON ORANGES



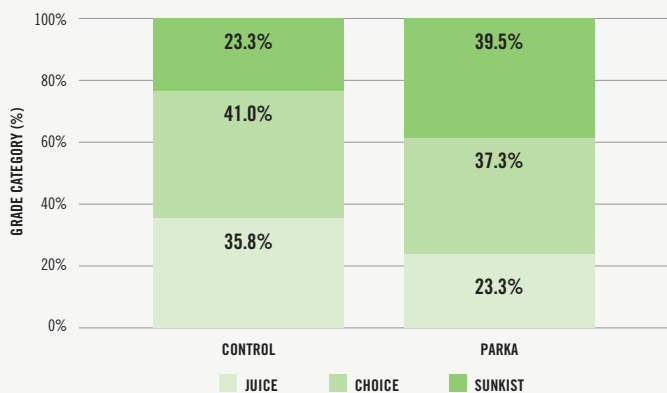
Variety: Cara Cara **Rate:** 1 gal/ac

Applications: Mid-spring +30 days, +30 days, +30 days

Location: California, USA **Source:** Research for Hire, 2022

Fruit Quality Improvement

FRUIT QUALITY ON ORANGES



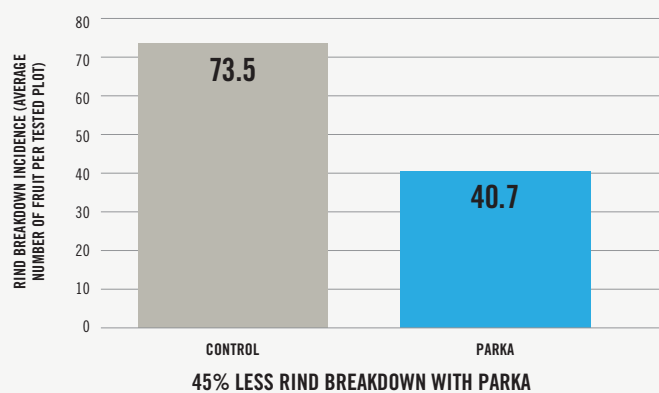
Variety: Cara Cara **Rate:** 1 gal/ac

Applications: May 19th +30 days, +30 days, +30 days

Location: California, USA **Source:** Research for hire, 2022

Fruit Finish Enhancement

RIND BREAKDOWN ON CITRUS



Variety: Sumo mandarins **Rate:** 1 gal/ac

Application: Fruit set, +21-30 days +21-30 days, early fall, +30 days

Location: California, USA **Source:** Sawtooth Ag Research, 2022

Crop Application Directions

| CROP | RATE / AC | USE GUIDELINES/PROGRAM |
|--------|-------------------------|---|
| Citrus | 1 gal or 1% V/V (9.5 L) | For summer applications: Apply at fruit set. Reapply every 21 days. For winter applications: Apply at senescence and prior to moisture events. |

Applications and Use

Application: For best results, complete coverage on the crop is required. Avoid excessive runoff. Do not apply when temperatures are above 90°F; if temperatures are expected to exceed this threshold, evenings applications are recommended.

Compatibility: Parka is compatible with most crop protection products, provided application coincides with the conditions on each label. Do not tank mix or overlap Parka applications within 5 days of CAPTAN®. If using micronized or dusting sulfur, do not apply Parka within 3 days of a sulfur application. If using Lime Sulfur, wait 7 days before applying Parka. Prior to tank mixing with any Emulsifiable Concentrate (EC) or oil-based materials, conduct a jar test to determine compatibility. Do not tank mix with surfactants, stickers or pinolene-based materials. Parka should be the last product added to the tank. For best results, finished spray solution pH should be between 5 and 7.

To learn more visit Cultiva.com, reach out to your local Parka representative or contact a retailer.