

Seasol[®]
a better way to grow

Seasol Plus Calcium

TECHNICAL INFORMATION



THE FRUIT FRIENDLY PRODUCT

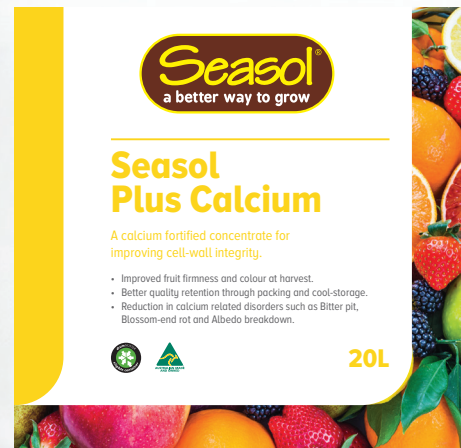
Seasol Plus Calcium is a Calcium fortified Seasol concentrate. This product has all the benefits of Seasol, with Calcium for improving cell-wall integrity in developing fruit and leaves. Improved fruit firmness and colour at harvest. Better quality retention through packing and cool-storage.



Seasol Liquid
Seaweed extract



Chelated Calcium



ABOUT SEASOL PLUS CALCIUM

Although Seasol is generally incompatible with Calcium fertiliser (causing precipitation of the alginates), after two years research and development, a new Calcium-fortified Seasol formulation has been developed that is both stable and effective. **Seasol Plus Calcium** stimulates plant metabolism to aid fruit development, while also providing Calcium for stronger cell walls and better storage quality. For best results, multiple applications from the start of rapid fruit growth (Stage II growth) will help ensure optimal fruit quality at harvest and the best possible post-harvest storage quality.

FEATURES AND BENEFITS



Improved fruit firmness and colour at harvest



Better quality retention through packing and cool-storage



Reduction in Calcium related disorders such as Bitter-pit, Blossom-end rot and Albedo breakdown

FRUIT DEVELOPMENT EXPLAINED

After pollination and fruit-set, the first stage in fruit development is fairly slow and relies mainly on cell-division growth. Like leaves, fruit at this stage have functioning stomata and so draw the moisture and nutrients they need from the roots (via the Xylem) in the same way as do the leaves. The next stage of fruit development is quite rapid and relies entirely on cell-expansion. As this development stage begins, fruit stomata cease to function, and the fruit relies on the 'source-sink' supply of moisture, sugars and nutrients from the leaves (via the Phloem). Unfortunately, Calcium cannot be transported by the Phloem and so supply of this nutrient virtually ceases. Of course, without cell-division, a continuous supply of Calcium is no longer essential (inside cells). However, Calcium remains important throughout the remaining growth and ripening stages due to its structural function in cell-walls. Without adequate cell-wall Calcium, fruit firmness suffers and susceptibility to damage by handling storage and infection increases. The only way additional Calcium can be effectively delivered to the fruit at this stage is via sprays directly onto the fruit surface. Naturally, much of this spray lands on leaf surfaces as well – where Calcium is not so necessary. Calcium applied to the leaves cannot be moved into the fruit and so for the purpose of improving fruit quality, this nutrient is lost. However, the stimulus Seasol gives to metabolism in the leaf does benefit the fruit by encouraging transport of moisture and sugars needed for both sizing and ripening. In this way, combined use of Seasol Plus Calcium works efficiently to ensure the highest possible yield of well sized, quality market-specification fruit.

Seasol Plus Calcium

A CALCIUM FORTIFIED CONCENTRATE FOR IMPROVING CELL-WALL INTEGRITY



INSTRUCTIONS FOR USE

1. **Seasol Plus Calcium** must be diluted in water. Use sufficient water to achieve adequate coverage when applying as a foliar spray.
2. Shake or agitate before use. Maintain agitation during dilution and application if possible.
3. Climatic stress - use 5/10L / ha 3-7 days prior to and after extreme stress events (e.g. heatwave and frost) to mitigate crop damage and assist recovery.

APPLICATION GUIDELINES

Category	Crop	Rate	Application / Critical Comments
Nut Trees	Almonds, Hazelnuts, Macadamias, Pecans	5-10L/ha or 1ml per sq mtr of plant area	Planting - drench or water in with 1:400 dilution. Apply from green tip/first growth flush. Recommend 5 applications at critical growth stages inc post harvest. Use higher rate for larger trees
Deciduous Fruit Trees	Pome Fruits, Stone Fruits and other deciduous species	5-10L/ha or 1ml per sq mtr of plant area	Planting - drench or water in with 1:400 dilution. Apply at each growth flush or 5 applications at critical growth stages and post harvest. Higher rates for larger trees
Evergreen Tree Crops	Avocados, Bananas, Citrus, Olives	5-10L/ha or 1ml per sq mtr of plant area	Planting - drench or water in with 1:400 dilution. Apply from Bud initiation and at each growth flush 10 L/Ha/ month on mature trees, fertigated in every month that you irrigate
Fruiting Annuals	Capsicums, Cucurbits, Strawberries, Tomatoes, Pumpkins	5L/ha	Apply at seedling and transplanting and from 15cm growth. Every 10-14 days or 4 applications as required
Leafy Vegetables	Asparagus, Brassicas, Celery, Herbs, Lettuces	5L/ha	Planting out - 1:400 dilution (2.5 mL/L or 2.5L/1,000L water), for watering in of seedlings in a water wheel planter or similar device. Apply at seedling and transplanting and from 3-4 leaf. Every 10-14 days or 4 applications as required
Root Vegetables	Carrots, Onions, Potatoes, Sweet Potatoes	10L/ha	Apply from in furrow. 4-5 applications at critical growth stages
Vine & Berry Crops	Blueberries, Raspberries, Wine and Table Grapes	5-10L/ha or 1ml/sq mtr	Apply regularly during the growing season. As a minimum, use the product at times of plant stress or recovery such as Pre-Flowering, Fruit Filling & Post Harvest. Higher rates for larger canopies. Do not apply directly over flowers where flowers are essential to crop productivity. Where bloom is a feature of fruit (e.g. blueberries & table grapes) do not apply as a foliar spray once the bloom develops to avoid any damage
Broadacre	Canola, Cotton, Pasture Crops (inc Lucerne), Sugar Cane, Turf	10L/ha or 1ml/ sq mtr	Apply at the start of the growing season and after each cut or grazing event in a rotational or strip grazing situation. Apply post emergence, 4-5 applications at critical growth stages. Seed coating (Cereals) Up to 4-10L/ tonne of seed. Do not exceed a total of 10L of total liquid per tonne. Sugar Cane - 5L/ha in furrow or billet dip, 2nd app 10L/ha at tillering. Ratoon crops 10L/ha at tillering. Do not graze pasture with ruminant animals for 3 weeks after application

GENERAL INSTRUCTIONS

Foliar Spraying: Apply the product as soon as possible after mixing in the spray tank. Maintain agitation in spray tank if possible. **Seasol Plus Calcium** can be used as a foliar application or applied directly to the soil and can be applied with boom sprays, air blast sprays, drip systems, travelling irrigators, centre pivots and by aerial application.

Fertigation: Agitate the product regularly in the fertigation tank. For best results use the product on its own. **Seasol Plus Calcium** can be mixed with a number of agricultural chemicals, DO NOT COMBINE WITH CALCIUM NITRATE. See tank mix compatibility information at www.seasol.com.au

STORAGE AND HANDLING

Not to be kept for prolonged periods in hot conditions (>30°C) or in direct sunlight. Always use safe work practices for lifting and handling drums. Once diluted, the product should be applied within 24 hours. Agitate the product prior to using and re-agitate if the product is left standing for an extended period of time.

SAFETY DIRECTIONS

Not to be taken. Keep out of reach from children. May irritate the skin and eyes. Avoid inhalation. Use in a well-ventilated space. Wash hands after use. Wash all edible plants before eating. If splashed, wash off with water. If swallowed or irritation persists, seek prompt medical advice. Additional information is listed in the Safety Data Sheet.

CONDITIONS OF SALE

This product must be used strictly in accordance to the directions. The efficacy of the product may be influenced by environmental conditions and application procedures and no warranty, express or implied is offered.

