# PHYCOFIX FORTE



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KELP SOURCE - 80% Enzymatically Hydrolyzed Ecklonia maxima

20% Enzymatically Hydrolyzed Pelagic Fish Concentrate

- (12% Protein Degree of Hydrolysis 50%)

These kelp forests are among the most beautiful and biologically productive habitats in the marine environment.

A dependence upon light for photosynthesis restricts the growth of kelp to clear shallow waters at depths of between 10-15 meters.

Ecklonia maxima are adapted to growth in the intertidal zone and are constantly exposed to the rough oxygen rich waves of the Atlantic ocean.

White water kelp has one of the highest growth and regeneration rates in the plant kingdom.

The cell wall and cytoplasm of Ecklonia maxima are a rich source of alginates, auxins, cytokins, betaines, polyamines and other beneficial plant biostimulants

The reason why Ecklonia maxima is exclusively used in the production and formulation of Phycofix Forte is because of the numerous natural biostimulant compounds embedded in the alginates.

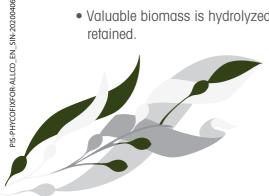
#### **PHYCOFIX** FORTE - The production process

Kelp fronds are harvested along the South African West Coast by divers at low tide off boats and processed the same day.

- The harvested kelp is washed to remove sand and foreign debris.
- This is followed by mechanical micronization.
- The micronized kelp is then enzymatically hydrolyzed with a series of proprietary enzymes at mild temperatures.
- No chemicals are added during the production process.
- The liquid phase is centrifuged to remove all remaining insoluble biomass.

#### BENEFITS - Enzymatic hydrolysis Process

- Enzymatic hydrolysis yields a soluble fraction of >6%. This is higher than other flowablecommercial products.
- Enzymatic hydrolysis of the cell wall andcytoplasm enhances the release ofbiostimulants while preserving their biologicalactivity.
- Valuable biomass is hydrolyzed andbiostimulants retained.
- Soluble alginate has humectant properties and acts safer in spray applicationsespecially during late applications on fruitcrops.
- Other beneficial hydrolysates eg. amino andfatty acids are preserved.
- Powerful antioxidants with pronounced radicalscavaging activity has been demonstrated.



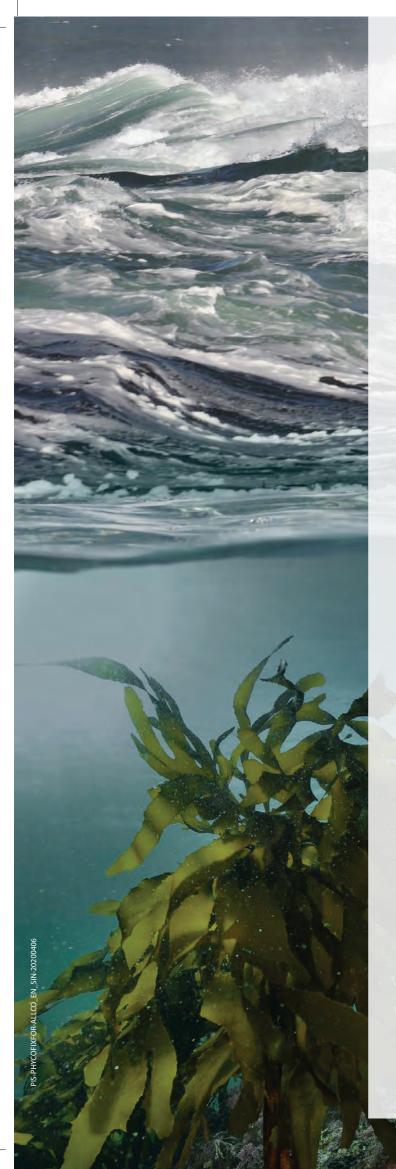
# PHYCOFIX FORTE Application rates

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FOLIAR APPLICATION:		
CROP	RATE/HA	REMARKS
<b>Berries</b> Blue berries, Blackcerries, Raspberries	1-5 Lt	Apply at the start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 300 Lt water/ha
Strawberries	1-2 Lt	Drench seedlings before transplanting (see drench application below). Apply 2 weeks after transplant. Repeat 14 days later, repeat 2 - 3 times. Apply in 200 Lt water/ha.
Bulb, Tuber and Root Crops: Onions, Garlic, Beetroot, Carrots	1-2 Lt/ha 1-2.5 Lt/ha	Drench seedlings before transplanting (see drench application below) Apply 2 weeks after transplant Repeat 14 days later, repeat 2 - 3 times Apply in 200 Lt water/ha
Potatoes, Sweet Potatoes	1-2 Lt 1-2 Lt 3-5 Lt 3-5 Lt	Start of emergence Apply 3 weeks after transplant Repeat 14 days after transplant Repeat 14 days later, repeat 2 - 3 times Apply in 200 Lt water
Cucurbits: Cucumber, Marrows, Melons, Pumpkins, Baby marrows	1-2 Lt/ha 1-2.5 Lt/ha	Drench seedlings before transplanting (see drench application below) Apply 2 weeks after transplant. Repeat 14 days, repeat 2 - 3 times Apply in 200 Lt water
Grain Crops: Maize, Sorghum, Barley, Oats, Wheat	1-3 Lt/ha 3-5 Lt/ha	Apply 2 - 3 weeks after emergence. Apply 14 days later. Apply in 200 Lt water/ha.
Grapes: Table Grapes and Wine Grapes	1-3 Lt/ha 3-5 Lt/ha 3-5 Lt/ha	Apply 2 - 5 cm shoot length. Apply 14 days later. Apply at pea berry size. Apply in 500 - 750 Lt water/ha
<b>Leafy Vegetables:</b> Lettuce, Spinach	1-2 Lt/ha 1-2.5 Lt/ha	Drench seedlings before transplanting (see drench application below). Apply 2 weeks after transplant. Repeat 14 days later, repeat 2 - 3 times. Apply in 200 Lt water/ha

<b>Legumes:</b> Dry Beans, Peas	1-3 Lt/ha 3-5 Lt/ha	Apply 2 - 3 weeks after emergence. Apply 14 days later. Apply in 200 Lt water/ha
<b>Nut trees:</b> Macadamia, Pecan, Wall Nuts	3-5 Lt/ha 3-5 Lt/ha	Apply at start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 200 Lt water/ha
Oil Seed Crops: Canola, Groundnuts, Soy beans, Sunflower	1-3 Lt/ha 3-5 Lt/ha	Apply 2 - 3 weeks after emergence. Apply 14 days later. Apply in 200 Lt water/ha
<b>Ornamentals:</b> Cut Flowers, Bulbs	1-3 Lt/ha	Drench seedlings before transplant (See drench application below) Apply 2 weeks after transplant. Repeat every 14 - 21 days. Apply in 200 - 500 Lt water/ha
Pineapples	1-3 Lt/ha 1-3 Lt/ha	Apply at the start of the growing season. Repeat application after 14 days. Apply in 1000 - 2000 Lt water/ha.
<b>Pome Fruit:</b> Apples, Pears, Quinces	3-5 Lt/ha 3-5 Lt/ha	Apply at the start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 1000 - 2000 Lt water/ha
Solanaceous Crops: Chilies, Paprika, Peppers, Tomatoes, Tobacco	1-2 Lt/ha 1-2.5 Lt/ha	Drench seedlings before transplanting (see drench application below) Apply 2 weeks after transplant. Repeat 14 days later, repeat 2 - 3 times. Apply in 200 Lt water
Stone Fruit: Apricots, Nectarines, Peaches, Plums	3-5 Lt/ha 3-5 Lt/ha	Apply at start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 1000 - 2000 Lt water/ha.
Sugarcane	3-5 Lt/ha 3-5 Lt/ha	Apply at the start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 300 Lt water/ha.
Subtropical Fruit: Avocados, Lychees, Mangoes, Citrus	3-5 Lt/ha 3-5 Lt/ha	Apply at the start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 1000 - 2000 Lt water/ha.
Guavas	3-5 Lt/ha 3-5 Lt/ha	Apply at the start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 300 - 500 Lt water/ha.
Other Crops	1-3 Lt/ha 1-3 Lt/ha	Apply at the start of the growing season. Repeat 2 - 3 times with 14 day intervals. Apply in 300 Lt water/ha.





## KEY BENEFITS OF USING PHYCOFIX FORTE

- Balanced ratio of natural plant growth stimulants
- Enhanced Root development
- Efficient nutrient and water utilization
- · Optimized pollination, fruitset and development
- Heightened photosynthesis and improved plant
- Superior resistance to abiotic stress
- Increased yields
- Compatible with the majority of agricultural sprays

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(12% Protein Degree of Hydrolysis 50%)

**Sineria** 

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