



Kelpak liquid seaweed extract is made from the seaweed species *Ecklonia maxima* (commonly known as kelp), which is found in the cold waters of the South African west coast. This is a prolific seaweed species, mainly due to its nutritional and natural growth stimulating compounds. The cell sap containing these substances is extracted from freshly harvested kelp with a unique cold cell burst technology. No heat, freezing or chemicals are used to break down the cell walls during the extraction process. This ensures that the delicate compounds found in the kelp are maintained in their active form in Kelpak. The product is approved for use in organic agriculture by the UK Soil Association, Australian Organic Limited, BCS Öko-Garantie and Ecocert according to the EU Regulation (CE) No.834/07 and 889/08 and NOP Regulation.

Delicate actives that include the phlorotannin, eckol, stimulates prolific adventitious root formation in almost any plant when treated with Kelpak. This drastic increase in root tips leads to an increased level of cytokinins in treated plants, as this is mainly where this group of hormones is produced. The increased root volume and number of root tips also improve moisture and nutrient uptake from the soil. The improved nutrient status together with the higher level of cytokinin in the plant leads to better top growth and consequently provides the increase in yield and quality of crops. This improved root system also makes the plant more resistant to stresses such as drought, water-logging, soil nutrient deficiency and salinity, nematode infestations and soil borne diseases.

Kelpak applied to plants in nurseries not only shortens the period in the nursery prior to plant-out, but also produces plants with a stronger root system, showing enhanced transplant shock resistance. Kelpak can be applied as a foliar spray and enhances the uptake of nutrients when applied with foliar feeds as a tank mix. Kelpak should not be applied in a spray solution with a pH above 7, not be more dilute than 1:500 for foliar sprays or 1:1000 for soil applications and should not be applied more frequently than 7 to 10 days apart.

Kelpak's efficiency as a cost effective agricultural fertilizer supplement has been proven internationally in numerous research programs under different climatic conditions and on a wide variety of crops. This natural product has a broad application base, is easy to apply and is compatible with most crop protection chemicals and foliar feeds. Its consistency in result and cost efficiency has led to its position as a market leader in various countries worldwide.

KELPAK

A global leader in seaweed products for over forty years





KELPAK APPLICATION – PG 1

CROP	DOSAGE	APPLICATION
ALMONDS	3 L/ha	Spray at 50% bloom and repeat twice at 10-14 day intervals
AVOCADOS	3 L/ha	Spray with gibberellic acid inhibitor at 50% bloom and repeat 14 days later
BANANAS	2-4 L/ha	Spray pre-bloom and repeat 2 to 3 times at monthly intervals
BLUEBERRIES, POME & STONE FRUIT	3 L/ha	Spray at fruit set and repeat twice at 14 day intervals
CHERRIES	3 L/ha	Spray at 50% bloom and repeat twice at 10-14 day intervals. Optional sprays at straw and 14 days later
CITRUS	200 ml/100 L water	Spray 3 times between white tip and full bloom Optional spray at fruit set. Spray post-harvest with nitrogen applications
MACADAMIAS	200 ml/100 L water	Spray start of bloom and repeat 4 times at monthly intervals
NEW ORCHARD & VINEYARD PLANTINGS	1 L/100 L water 500 ml/100 L water 200 ml/100 L water	Dip bare roots of nursery trees before transplant or Soak seedling bags before transplant, or soak soil around trees after plant-out and Spray 3 to 5 times during early active growth at 21 day intervals
PECANS & WALNUTS	3 L/ha	Spray at catkin elongation and repeat twice at 14 day intervals
STRAWBERRIES	1 L/100 L water 3 L/ha	Dip the runners in solution at plant-out and Apply at 21 day intervals, cease application 1 month before end of harvest
TABLE GRAPES: ALL CULTIVARS Bunch stretching Berry size, uniformity	2 L/ha 3 L/ha 4-5 L/ha 1-1,5 L/100 L water	Spray at 5-10 cm shoot growth Spray in 1000 L water or less after set (4 mm berry size) Repeat 2 to 3 times at 10-14 day intervals or Spray as above with electrostatic applicators or Dip bunches 2 to 3 times at 4-12 mm berry size
Improved sugar and colour	3 L/ha	Spray at start of berry softening (veraison) and repeat 14 days later
WINE GRAPES Bunch stretching Berry set, uniformity, yield increase	2 L/ha 2 L/ha	Spray at 5-10 cm shoot growth Spray 2 weeks before flowering and repeat at start of flowering to 30% bloom
TURF & SPORTS FIELDS	2 L/ha	Spray at start of growing season and repeat 14 days later. Repeat sprays after summer heat stress
GREENS	250-500 ml/100 L water	Apply 20 L solution to 100 m ² and repeat monthly Use higher application rate with establishment
FLOWERS & ORNAMENTALS	100 ml/10 L water 50 ml/10 L water	Dip tray with seedlings in solution, or wet seedling tray/bag before transplant and Spray 14 days after emergence or transplant and repeat at 21 day intervals



KELPAK APPLICATION – PG 2

CROP	DOSAGE	APPLICATION
CAPSICUMS: PAPRIKA, PEPPERS. CRUCIFEROUS CROPS LEAF VEGETABLES LETTUCE ONIONS TOMATOES	1 L/100 L water 2-3 L/ha	Dip seedling tray with seedlings in solution, or wet seedling tray with a watering can before transplanting and Spray 14 days after transplant and repeat once or twice at 14-21 day intervals Start sprays at 3 to 4-leaf stage for direct seeded plants
CARROTS & CHICORY	2 L/ha	Spray at 4 to 5-leaf stage and repeat 14 to 21 days later
CUCURBIT CROPS: BUTTERNUT CANTALOUPE CUCUMBER MELON PUMPKIN WATERMELON	1 L/100 L water 3 L/ha	Dip seedling tray with seedlings in solution, or wet seedling tray with a watering can before transplanting and Spray 14 days after transplant and repeat 14 to 21 days later Start sprays at 3 to 4-leaf stage for direct seeded plants
DRY BEANS, GREEN BEANS, PEAS	2 L/ha	Spray between V6 (6-Trifoliolate) and R1 (start of flowering) growth stages
GARLIC	1 L/100 L water 2 L/ha	Soak seed pieces for 15 minutes before planting and Spray at 3 to 4-leaf stage and repeat once or twice at 14-21 day intervals
LUCERNE	2 L/ha	Spray 7 to 21 days after cutting or grazing
POTATOES	500 ml/100 L water 1 L/ha 3 L/ha 2 L/ha	Dip seed potatoes for approximately 5 minutes before planting or Spray seed potatoes before plant or in plant furrow with planter and Spray at 15 cm rosette stage and Spray 10 to 14 days later, but not later than tuber formation
SOYBEANS	2 - 4 L/ha	Spray between V3 (3-Trifoliolate) and R1 (start of flowering) growth stages
SUGAR BEET	3 - 4 L/ha	Spray at 4-pair-leaf stage
SUGAR CANE	350 ml /100 L water 2 L/ha	Dip stalks or spray seed pieces in furrow at planting and Spray at 60 to 90 cm leaf length stage
WHEAT, BARLEY, CANOLA, MAIZE, OATS, RICE	2 L/ha	Spray at 4 to 5-leaf stage (BBCH 14-15)
ROSES: PLANTING & GREENHOUSE	1 L/1000 L water 2-3 L/1000 L water	Drench flower beds of newly planted roses, or at start of production cycle for established roses at 2 L/m ² and repeat 14 days later and Spray 21 days after second flower bed drench
OPEN PRODUCTION	2-3 L/1000 L water	Spray after start of new growth and repeat 21 days later. Repeat sprays 5 months later



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