

Omex Kingfol Zinc

FUNCTION

Zinc is important as a metabolic stimulant in seeds and young plants as an enzyme activator for early root growth. Zinc is involved in the conversion of amino acids into polypeptides, proteins and hormones such as auxins, which are produced in shoot tips and are subsequently translocated to the roots to stimulate growth. Zinc is also important in modifying cell membrane integrity to help the plant overcome oxidative stress due to production of free radicals in photosynthesis.

The 'quick uptake' is achieved by direct entry via the stomata on the surface of the leaf, due to the small particle size profile of the product. The 'slower sustained uptake' is facilitated by the 'uptake enhancers' in the formulation. These work by stimulating the microbes which live naturally on the surface of the leaf. These are also known as epiphyllic microorganisms which help solubilise the remaining foliar spray. Once in ionic form, it then passes into the plant by diffusion through the leaf cuticle.

DESCRIPTION

Omex Kingfol Zinc is a highly concentrated single element suspension to correct zinc deficiency. It is formulated with uptake enhancers to optimise performance over time. The particle size profile for Omex Kingfol Zinc is constantly monitored during the production process to ensure a homogeneous formulation. The use of unique 'uptake enhancers' allows nutrients to enter the plant by two main pathways, one acting quickly and the other more slowly. This provides a mechanism for sustained uptake over time.



Analysis of Omex Kingfol Zinc

		Wt/Vol*	Wt/Wt
Zinc	Zn	70.00%	40.50%
pH (10% solution)		8.5-9.5	
Specific Gravity		1.71-1.75 @ 18°C	

*For registration purposes Wt/Wt concentrations are recommended.

DIRECTIONS FOR USE

The spray tank should be filled with half of the required amount of water. Measure the required amount of Omex Kingfol Zinc and add to the tank whilst maintaining constant agitation. Add remaining water to correct dilution. Spray.



DILUTION: Recommended water rate is 100-1000 Litres per hectare

Always shake container before opening



Recommendations for use:

N.B CROP	RATE l/ha	APPLICATION DETAILS
Maize/ Cereals	0.5-1.0	Apply early to aid rapid growth. Repeat 14-21 days later
Brassicas	0.5-1.0	Apply early to aid rapid growth. Repeat 14-21 days later
Potatoes	0.5-1.0	Apply early to aid rapid growth. Repeat 14-21 days later
Onions	0.5-1.0	Apply early to aid rapid growth. Repeat 14-21 days later
Citrus, avocados & tropical fruits	0.5-1.0	Apply 2 applications in spring and autumn
Apples, stone fruit	0.5-1.0	1st application at early bud stage, 2nd application after petal fall
Cotton	0.25 0.45	For moderate deficiency For severe deficiency
Vines	0.5-1.0	1st application - shoots 10cm, 2nd application at 5% flowering
Bananas	0.5-1.5	Apply at early spring flush

TANK MIXING COMPATIBILITY

Omex Kingfol Zinc is compatible with most, but not all, pesticides, growth regulators and micro-nutrients with regard to physical tank mixing and biological effects on the crop. However, Omex cannot accept any liability for any loss or damage as not all pesticides have been tested and because the efficacy of any mix will depend on, among other factors, the pesticide concerned, crop conditions, growth stage, weather and volumes of water used. Do not mix with phosphates or sulphates.



PRECAUTIONS

Omex Kingfol Zinc should be stored in frost free conditions with optimum storage range between 5-40°C. Omex Kingfol Zinc is a non-hazardous and non-flammable foliar fertiliser. Gloves and face shield should be worn when handling the concentrate. In situations of prolonged storage there may be slight settling of the nutrient particles. This is reversible on shaking.

PACKING: Omex Kingfol Zinc is available in HDPE drums of 0.25L, 0.5L, 1L, 3L, 5L, 10L capacity. Drums are fitted with tamper evident closures. 200 and 1000 Litre mini bulk available.

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