

**ENGAGE**  
The Power of Nutrition

**Innovation** for  
Ornamentals  
and Hardy  
Nursery Stock

Sion

Sentinel

Fortify Cu

Aqualatus

Mas-Power 360

Pure Mix



**JF MCKENNA**  
Grow Smarter

**In a competitive market achieving optimal quality of Ornamentals and Hardy Nursery Stock is the key to success. Whether it is to maximise flower number, colour and uniformity or to support key processes such as general crop health, or protecting against harmful and limiting stresses.**

- Timing nutrients and ensuring there is optimal supply through these key processes will ensure crops are supported through periods of peak demand and are supported if stress increases, whether it be abiotic pressure through adverse growing conditions or biotic pressure from pests or pathogens.
- Engage Crop Solutions has many years of experience in nutrition across the world and has developed a number of innovative products aimed at targeting key nutrient periods to keep crops healthy, so growth is of the highest quality.
- This brochure highlights products that will aid growers in growing quality stock, maximising a plants genetic potential, help avoiding losses through stress and ultimately assist in uniform growth to optimise quality and minimise wastage.

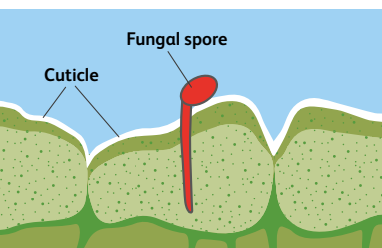


### **FIGHTING BIOTIC STRESSES TO PROTECT AND STRENGTHEN YOUR CROPS**

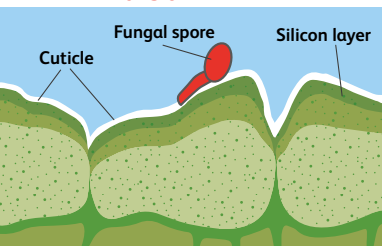
**Sion is a new silicon nutrient for foliar and irrigated application to increase the strength, growth and health of crops. This fertiliser contains a unique form of silicon which provides a proven and balanced source of available silicon to the plant.**

Sion boosts the strength of cells and increases the speed at which growth can be created thereby increasing overall growth potential of the plant. Sion offers improved plant cell development as well as maintaining cell integrity and plant strength. It can also increase nutrient activity, alleviate abiotic and biotic stresses, and increase the resistance of plants to pathogenic pressure.

Normal



With Sion



the progress of pest or disease entry drops. The stronger cells wear off the mandibles of insect larva when they chew plant tissue, thereby limiting susceptibility to damage by insects.

### **FIGHTING BIOTIC STRESSES TO PROTECT AND AID THE RECOVERY OF YOUR CROPS**

**Sentinel is a unique new combination of silicon and salicylic acid, created to maximise the strength and health of crops. By aiding silicon movement as it enters the plant Sentinel assists the repair and recovery of cells after periods of stress.**

Sentinel reinforces the strength of cells during cellular production and increases the speed at which growth can be created so increasing overall growth potential. A crucial effect of adding silicon to crops is the visible response from the applications. Plants become stronger, with thicker stems and branches. This in turn increases the potential of crops as they can support more leaf and flower.

Sentinel limits susceptibility to damage from sucking and biting pests. The toughened leaf or root epidermal cells reduce potential damage from feeding and as silicon increases the prominence of leaf hairs and their strength, application of Sentinel makes it difficult for insects to move about the plant.





**Fortify™ Cu**



**Aqualatus**

### BIO-FORTIFICATION FOR ORNAMENTALS AND HNS CROPS™

**Fortify Cu is a unique formulation of proprietary halide ion technology and copper which complement each other to support plant bio-fortification, correct deficiency and aid vascular mobility within the plant with the aim of preventing yield loss associated with biotic and abiotic stress.**

Copper is a trace element which is involved in several enzyme systems and also in photosynthesis. It has poor mobility within the plant particularly in deficient crops and deficiency can have a serious effect on crop growth and quality. Copper is held strongly by soil organic matter and this can determine whether adequate copper is available for crop growth, therefore foliar copper in an active form can have a positive effect on growth for all plants. Fortify Cu contains nitrogen, copper and EAE's unique halide ion technology. The nutrients within Fortify Cu are provided in a form which is both mobile and that the crops can utilise quickly. This robust formula stimulates vascular flow and root activity to mobilise the copper in crops to maintain vigour and growth which in turn results in the maintenance of appearance and quality. The effective formula reinforces cellular processes to strengthen cell integrity to limit susceptibility to damage from abiotic and biotic stresses.

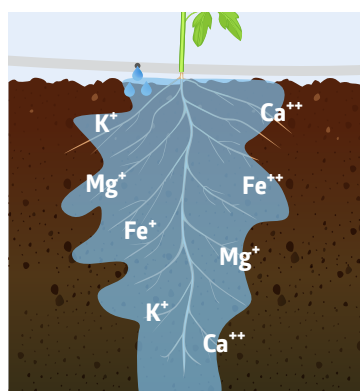


### A REVOLUTION IN WATER AND NUTRIENT MANAGEMENT

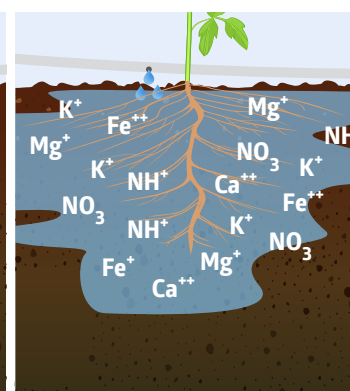
**Aqualatus is a unique rootzone surfactant with outstanding qualities to benefit crop nutrition. Its formula, unique to Engage Crop Solutions, makes it essential for the maximum distribution of root applied nutrients to aid root functions and nutrient uptake.**

Most importantly, regular use of Aqualatus will slow the natural gravitational movement of water and so will reduce the overall water requirement for soil or container grown crops; this has been proven to be 30-40% without any loss of crop development, and quality. Treating crops with Aqualatus will improve water and nutrient distribution and utilisation by expanding the root zone wetted area where larger and healthier root systems can develop.

Water



With Aqualatus



rootzone which is vitally important for optimising efficacy of beneficial nematode applications for root pest control. It also aids the movement of the nematodes to allow damaging pests such as vine weevil to be more effectively managed.



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**POWERING GROWTH, REDUCING STRESS!**

**MAS-Power 360 contains generous levels of major and micro nutrients together with a Bio Pack which supports plant health, increases nutrient efficiency and aids crops during periods of stress no matter what the cause.**

Applications of MAS-Power 360 will give improved nutrient management and growth and is the perfect accompaniment to Crop Solutions chemical applications especially those in a multi-product mix or for use as a quality enhancer on its own. The formulation of 360 is unique in the fact that it inhibits the production of ethylene under stress conditions to allow crops to recover more quickly.

MAS Bio Pack positively affects stress hormones which regulate a crop's response to stress.

Very effective as a foliar application on pre-despatch and can be used on any crop, in any situation.



**HIGHLY EFFECTIVE CROP NUTRITION.**

**Pure-Mix fertilisers are a range of premium water soluble N:P:K and trace element powders, made using the purest raw materials, blended to the highest standards for use in fertigation and supplementary liquid feeding.**

Pure-Mix is available in six different ratios and two trace element blends to suit every cropping situation and formulated to suit every growing media. Ideal for all irrigated and drip irrigated crops to provide the total nutritional needs and the range covers both soft and hard waters using a standard and water turned option.

Pure-Mix is chloride and dye free, with lower levels of ammonia to reduce stress and allow for optimal uptake for growing plants from seedling/propagation stage to despatch.



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