



Vines

Crop Programme

MAS-Power	Use	No of applications	Timings	Rate litres/ha
MAS-Power Mg	To correct magnesium deficiency, aid the mobility and synthesis of sugars. To support starch translocation and to aid in nutrient uptake control especially iron utilisation. A key nutrient for boosting chlorophyll performance in leaf to maximise leaf quality.	Only as required	From early shoot growth through to veraison at 3-4 week intervals. Flower. Application timings may increase if crop shows visual signs of deficiency.	3.0-5.0
MAS-Power Mn	To correct manganese deficiency, to assist the photosynthesis process by supporting assimilation of carbon dioxide, the Hill reaction and electron transport. Also to aid in the synthesis of chlorophyll and in nitrate assimilation which results in greater leaf quality.	Only as required	As required from tissue analysis. Repeat at 10-14 day intervals if required.	2.0-3.0
MAS-Power Cu	To correct copper deficiency and support photosynthesis and respiration within the plant. MAS-Power Cu will aid carbohydrate and protein metabolism and is essential in the formation of lignin in plant cell walls to contribute to the structural strength of cells, especially those involved in the formation fruit. Late applications can aid fruit flavour, and the sugar content of berries.	Only as required	As required from tissue analysis. Repeat at 10-14 day intervals.	0.25-0.50
MAS-Power B+Mo	To correct boron deficiency. Particularly important during the development of fruit development, translocation of sugars and the reproductive process. Also assists with the regulation of water balance within cells. Boron is the essential nutrient for pollination, fertilisation and seed production, which are necessary for optimal berry development.	2-3	1st Early bud burst 2nd Early shoot growth 3rd (If required pre flowering)	2.0-3.0
MAS-Power Zn	To correct zinc deficiency, which is essential for the production of auxins to promote healthy growth. It aids protein synthesis and the regulation and consumption of carbohydrate to support fruit development and visual quality. It is necessary for the formation of chlorophyll and influences the rate of seed and stalk maturation. Optimal levels of zinc in the tissue will enable plants to withstand lower air temperatures.	3	1st Bud initiation 2nd White bud Then as required from tissue analysis during the growing season.	1.0-2.0
MAS-Power KS	To maximise potassium uptake within grapes without the application of nitrogen. To correct deficiency, maximise physical stress recovery and to increase fruit size and quality. The addition of MAS technology to the mix maximises the stress effect and nutrient assimilation.	As required	May be applied throughout the season as required ideally through irrigation. Applications may be done weekly if required.	2.0-4.0
MAS-Power Fe	To correct iron deficiency and aid photosynthesis as iron plays a major role in chlorophyll (green pigment in plants), its development and its function. Iron plays a role in energy transfer within berries and functions in plant restoration and overall crop metabolism.	2	As required from tissue analysis or as a programme for Northern European production. 1st Early shoot growth 2nd Mid shoot growth	1.0-2.0
MAS-Power 360	To increase nutrient mobility and reduce overall stress from chemical applications, abiotic and biotic stresses. Regular applications will aid overall nutrient movement and assimilation and will support plant health and keep leaf quality at optimum.	As required	As required from early season growth through harvest. 360 can be applied with all pesticide and other foliar applications.	1.0-2.0
Fortify	Use	No of applications	Timings	Rate litres/ha
Fortify Cu	To aid phloem mobility, correct copper deficiency to cover the copper requirements of vine crops. Importantly to protect yield and maintain crop development during periods of significant pathogenic pressure.	As required	As required from tissue analysis or as part of a regular programme. Apply post fruit set to harvest. Repeat at 10-14 day intervals.	2.0-3.0



Fortify 30-20	To increase the phloem mobility of nutrients when used as a regular foliar or irrigated programme. P&K are essential in healthy berry development and will support plant health and vigour. 30-20 will stimulate root development and initiation. Importantly 30-20 aid crop health during periods of pathogenic pressure.	4-8	As required from mid shoot growth onwards through harvest and within a post harvest programme. Repeat at 10-14 day intervals if applied foliarly. If applied via irrigation mix directly with fertiliser stock and apply bi-weekly	Foliar 2.0-5.0 irrigated 4.0-8.0
Specialist Products	Use	No of applications	Timings	Rate litres/ha
Integrate* Soil Surfactant	To maximise the lateral movement of water and nutrients through the rhizosphere. Also to maximise hydrolysis to support overall yield and quality. Regular use will reduce the required amount of water to grow the crop by up to 40 %	Monthly	Apply first application during early season at the higher rate. Repeat every 4 weeks at the lower rate. Apply via irrigation incorporated into normal feeding regime.	Northern Europe 0.6-1.2 Southern Europe 1.0-2.0
Bio-Chel Ca	To correct calcium deficiency and minimise calcium related disorders. To optimise cell division during flowering and the early development of fruit to support optimum yield and quality. The calcium sources in Bio-Chel will rapidly strengthen the walls of cuticle cells in leaves and fruits to protect against disease ingress and increase shelf life and storage potential. Applied post harvest it will support strong flower initiation.	As required	1st Early bud burst 2nd Early shoot growth 3rd Mid shoot growth 4th Early flowering subsequent applications as required from fruit set to Veraison. Two further applications post harvest are recommended	Foliar 2.0-6.0 Irrigated 5.0-10.0
Reactor	For use as a water conditioner, acidifier and softener which is low hazard and highly effective at maximising the efficacy of chemical applications and keeping irrigation lines free of algae, organic and lime scale deposits. Reactor will acidify irrigation water to optimise irrigation water pH for greater nutrient availability without the hazard issues associated with acids.	As required	To be used in spray tank when required from early season. For use in irrigation add constantly to stock tanks and dose as normal.	Rate established by water analysis
Pure Mix Fertilisers	High quality soluble powders created specifically to supply the total nutritional requirements of vine crops in soil production. Analysis will be adjusted for differing growth stages and water quality.	As required	Use weekly as total feed from early growth through and beyond harvest via irrigation	20-25kg
Brix-Builder	To maximise any growth process by adding and stimulating carbohydrate production and mobility. Brix Builder will increase fruit number and size if applied before and during the flowering period and will aid growth during periods of poor weather. Later applications during fruit maturation will increase brix levels leading upto harvest. Post harvest applications will aid flower initiation and carbohydrate building for the next season.	2-6 applications	Flower/fruit enhancement 1st Early flower 2nd Full flower During periods or slow growth apply weekly as required. For lifting brix levels apply every 7 days from 3-4 weeks before harvest. 2-3 apps will generally be sufficient.	1.0
Sion	A foliar nutrient spray containing a unique form of available silicon for the plant. Silicon increases the strength of cell and the speed at which growth can be created so optimises overall growth potential. Sion will aid the balance of nutrient uptake by the plant by addressing the silicon requirement thereby reducing competition for uptake against other essential elements. Importantly Sion reinforces leaf cuticle and other epidermal tissues to protect the plant from pathogenic and pest pressure.	As required	Apply as required as part of a regular programme or when pest or pathogen pressure increases. Ideal for use throughout the season.	0.25-0.5
Sentinel	A foliar nutrient spray containing a unique form of available silicon + salicylic acid. The blend maximises tissue recovery from stress and mechanical damage. Also the blend will maximise the leaf cuticle reinforcement and immune system responses to protect from pathogenic and pest pressure.	As required	Apply as required as part of a regular programme or when pest or pathogen pressure increases. Ideal for use throughout the season.	0.5-1.0

* Known as Aqualatus in the UK market