



**PRODUCT INFO
& DATASHEET**

SICO AMINOPLEX L40

Liquid Amino Acids Complex, containing 30% Free Amino Acids

Revised 15/05/2017

1. PRODUCT DESCRIPTION:

SICO AMINOPLEX L-40 is a new liquid formulation containing 17 essential amino acids to aid plant vigour and enhance crop growth and assist towards heavier yields. The product is also high in betaines which are essential to the crop's performance under heat stress.

2. TECHNICAL SPECIFICATIONS:

Characteristics &

Certificate of analysis

Appearance	:	Dark brown liquid
Odour	:	Fermentation
Solubility in water	:	99%
Bulk Density	:	1.25 g/ml
pH 1:100 w/v	:	5.5
Nitrogen	:	7.2%
Organic N	:	5.06%
Ammoniacal N	:	2.14%
Calcium (CaO)	:	0.5%
Betaines	:	4.5%
Carbon	:	18%
Organic matter on DM basis	:	50% plus
Amino Acids (free)	:	30%

Heavy Metal analysis:

			Value	Method of Analysis
Arsenic	(As)	mg/kg	≤ 2	Atomic Absorption
Cadmium	(Cd)	mg/kg	≤ 1	Atomic Absorption
Lead	(Pb)	mg/kg	≤ 10	Atomic Absorption
Mercury	(Hg)	mg/kg	≤ 0.1	Atomic

3. SUGGESTED APPLICATION RATES:

The following are only suggested rates for application to the crops described below. In practice growers will become familiar with this product and may want to change the rates to suit their own husbandry techniques. Always spray to run-off in sufficient water to ensure good coverage. 200-400 litres water per hectare for most crops and 2000 - 4000 litres of water per hectare for top fruit. Spray nozzle tips vary and as water is only the vehicle selected to enable an even coverage, local practice will vary considerably. Always ensure that your spray nozzle tips are clean and tested for accuracy regularly.

Fruit trees/Soft fruit: 1.5 - 2.5 litres per hectare per application and some 4-5 applications can be made.

FRUIT	1st Appln.	2nd Appln.	3rd Appln.	4th Appln.
Apples & pears	pink bud	full bloom	Early fruiting	21 days later
Citrus, avocado	¾ days pre-bloom	petal fall	after 14 days	6 weeks before harvest
Grapes, kiwi	10-25 cm of new growth	early bloom	berry set	14-21 days later
Stone fruit	pink bud	full bloom	early fruiting	21 days later
Strawberries	at transplant* or early spring growth	at first sign of bloom	7-10 days later	every 21 days to mid harvest

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.

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Vegetables: 1 – 2.0 litres per hectare

	1st Appln.	2nd Appln.	3rd Appln.	4th Appln.
General rule	when there is enough foliage for spraying	at first signs of flowering	14-21 days later	14-21 days later
Peas, beans,	at 4-5 leaf stage	at 1st signs of flowering	at early pod initiation	
Cucumbers, squash, melons, egg plant, peppers	transplant dip of 10 g per 10 litre water	at 4-5 true leaf stage	just prior to 1st bloom	10-14 days later, and at 14 day intervals
Potatoes, sweet potatoes	a solution of 10 g per 10L as tuber dip at planting	at 3-5 leaf stage	at tubers 15-20mm in diameter	at early bloom
Tomatoes	at 15-20 cm growth	just prior to 1st bloom	repeat at 14 day intervals	

Flowers, Ornamentals and grass: 0.5 – 1.0 litres per hectare

Carnations, Chrysanthemums	transplant root dip of 10 g per 10L water	10 days after transplanting	repeat 10-14 days later	repeat if necessary up to blooming
Roses	transplant root dip of 10 g per 10L water	10-14 days after transplanting	repeat 10-14 days later	repeat as soon as possible after 1st cutting
Ornamentals	transplant root dip of 10 g per 10L water	10-14 days after transplanting	repeat at 2-3 week intervals	
Turf grass	apply at 1st signs of growth in spring	repeat at 21-28 day intervals	apply in autumn to improve frost hardiness.	

Field Crops: 1.5 – 2 litres per hectare

Alfalfa	0.5 litres per ha at 4-5 leaf stage	0.5 litres per ha after 1st cut	0.5 litres per ha after each cut
Cereals	0.5 litres per ha at Growth Stage 21 in autumn	0.5 litres per ha at Growth Stage 30	optional: 0.25-0.5 litres/ha at Growth Stage 51-71
Cotton	0.75 litres per ha at early squaring	0.75 litres per ha at first signs of flowering	0.75 litres per ha 14 days later
Maize	0.75 litres per ha at 4-5th leaf stage	0.75 litres per ha just prior to tasselling	
Oilseed rape	0.5-0.75 litres per ha at 5 leaf stage (Growth Stage 1.5)	0.75 litres per ha at green bud stage (Growth Stage 3.1)	
Peanuts	0.5 litres per ha at 4-6 leaf stage	0.5 litres per ha at pegging	
Rice	0.5 litres per ha at 4-6 leaf stage	0.5 litres per ha at flag leaf emergence	
Soybeans	0.5-0.75 litres per ha at 4-5 leaf stage	0.5-0.75 litres per ha at first sign of flowering	
Sugar beets	0.5-0.75 litres per ha at 4-6 true leaf stage	0.5-0.75 litres per ha 14-21 days later	

STORAGE & HANDLING:

This product contains preservative but should be kept out of direct sunlight and away from heat and frost.

PACKING:

- In cartons of 12 x 1 ltr, 1008 ltr per pallet, 10 pallets = 10080 ltr/20 ft container
- In cartons of 4 x 5 ltr cans, 1000 ltr per pallet, 10 pallets = 10,000 ltr/20 ft container
- In cartons of 2 x 10 ltr cans, 1300 ltr per pallet space = 13,000 ltr/20 ft container

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