

Fortify Cal.40

 23.3% w/w CALCIUM
 4% w/w NITROGEN

High analysis suspension for correcting calcium deficiencies improving shelf life, fruit quality and reducing damage

BENEFITS OF FORTIFY Cal.40

High analysis liquid form provides sustained uptake to maximise plant availability and use

- High calcium content aids fruit quality and improves shelf life
- Formulation provides improved sunburn protection through the formation of a particulate barrier
- Can be applied with a wide range of other agricultural chemicals, reducing the number of spray applications required
- Free flowing formulation makes it easy to decant into spray equipment and mixing tanks

THE ROLE OF CALCIUM

Calcium is critical for the strength and integrity of cell walls. It plays an important role in cell division and growth development, including pollen tube growth. In fruit crops it is required in high quantities, in some cases in amounts equal to that of nitrogen. Calcium is also shown to participate in the complex responses of plant cells to environmental stress. Trials show that the foliar application of calcium can enhance plant drought resistance and heat stress by protecting the structure of the cellular plasma membranes whilst still maintaining photosynthesis.

THE ROLE OF NITROGEN

Nitrogen forms protein and increases the yield of leaf vegetables, fruit, seed and grain. Nitrogen is the essential building block of plant structure and is vital to plant growth. It is essential that nitrogen be in balance with other elements.

Deficiency Symptoms of Calcium

- Bitter pit in apples
- Tip burn in strawberries and lettuce
- Blossom End Rot in tomatoes and cucurbits
- Growing point can die where roots become stunted and brown, while leaf stalks develop brown lesions and collapse
- Generally, softer fruit with lower shelf life

Deficiency Symptoms of Nitrogen

- Small, Pale Older Leaves
- Poor Shoot Growth
- Poor Fruit Set
- Stunted Plants
- Small Fruit Size / Reduced Yield



Application rates

Suitable for:

Foliar

Fertigation

| | | Rates | Minimum Dilution | Notes |
|-----------------------|--------------------|-------------|------------------|---|
| Fruit / Trees / Vines | Citrus | 3-5L per Ha | 1 in 100 | Repeat from flowering until 1 month before harvest |
| | Pome / Stone Fruit | 2-4L per Ha | 1 in 100 | Repeat at 10 day intervals from after petal fall to harvest |
| | Berries | 4L per Ha | 1 in 50 | Apply every 10 days during harvest |
| Vegetables / Salad | Brassicas | 3-5L per Ha | 1 in 20 | Apply between 4 leaf and 9 leaf stages |
| | Capsicum / Tomato | 5L per Ha | 1 in 20 | Apply from flowering at 2nd truss. Repeat every 14 days |
| | Carrots | 3-5L per Ha | 1 in 20 | Apply upon sufficient foliage. Repeat every 10-14 days |
| | Cucurbits | 3-5L per Ha | 1 in 70 | Repeat every 7 days during flowering and fruit development |
| | Lettuce | 3-5L per Ha | 1 in 30 | Apply 10 days after transplant. Repeat at 10-14 day intervals |
| | Onions | 3-5L per Ha | 1 in 100 | Apply at 6 leaf stage. Repeat as necessary |
| | Potatoes | 3-5L per Ha | 1 in 30 | Apply 2 weeks after emergence. Repeat as necessary |

In hot weather, use the higher dilution rate where applicable

Available in:

20 Litre

1000 Litre

NOTE: The suggested rates of application are designed for typical UK conditions and such should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28 C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf (sap) tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential

Specific Gravity: 1.70-1.73
Agitate contents well before dilution.

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