

## Tree fruit

Fortalis™ is an advanced foliar spray containing our patented CaT™ technology. This optimises calcium mobility for improved quality and shelf life in tree fruit.



## Benefits of Fortalis

- ✓ Improved crop quality, storage and shelf-life
- ✓ Reduction of bitter pit and other calcium disorders
- ✓ Less crop waste and more marketable yield
- ✓ Compatibility with other AgChem foliar sprays
- ✓ Application flexibility due to reduced risk of scorch.

### Nutrient content

Nutrient	%w/w	g/L
Ca	10	140
CaO equiv	13.9	195
N	8	112
Zn	0.8	11

Formulations can vary by region

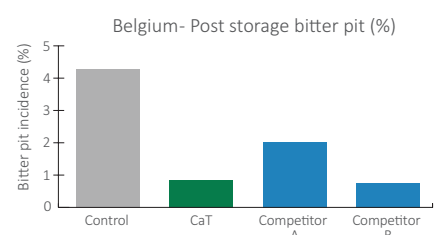
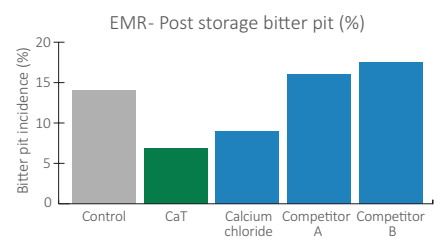
### CaT™ Calcium mobility technology

Calcium is an essential plant nutrient, principally taken up with water. It is vital for cell wall and membrane structure.

CaT is designed to mobilise calcium. It stimulates selective ion transport channels in membranes, increasing the calcium concentration within cells and improving localised calcium movement. This efficient technology means you get results with a low application rate.

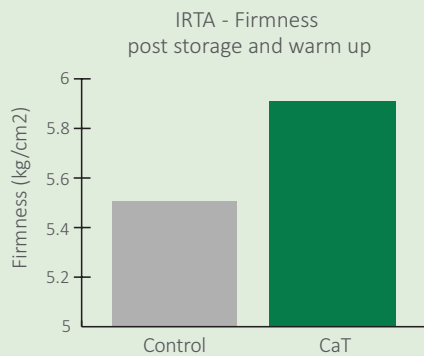
CaT consistently reduces incidence of bitter pit in apples.

As shown in the first graph below, bitter pit incidence in Bramley was reduced by the application of CaT compared to all other treatments. Furthermore, the CaT treatment had the highest fruit calcium content. This was achieved notwithstanding the lower calcium application rate. This trial was conducted by East Malling Research (EMR), UK. In another trial located in Belgium on Jonagored, CaT demonstrated a reduction in post storage bitter pit incidence.



# CaT improves storage quality and firmness

A trial conducted on Golden Smoothie apple variety in Spain at the Institute for Food and Agricultural Research and Technology (IRTA) demonstrated less bitter pit and a significant difference ( $P < 0.05$ ) in fruit firmness after storage and warm up.



## Application information

Application flexibility is created as a result of the formulation and the level of calcium needed for efficacy. This allows early-season sprays and day-time application in warm weather with low risk of scorch.



## Directions for use

Shake well before use. We recommend applying Fortalis in a minimum 200 litres of water per hectare. The table below indicates the application rate and timing for tree fruit. For more detailed advice, consult your agronomist.

Crop	Rate	Spray timing
Apples	1-3 L/ha	Every 2-3 weeks starting as early as pink bud until harvest
Pears	1-3 L/ha	Every 2-3 weeks starting from flowering
Cherries	1-3 L/ha	Every 2-3 weeks starting from flowering

### Tank mixing

Fortalis is compatible with most pesticides, adjuvants and foliar fertilisers. Mixing with products containing high levels of sulphate or phosphate may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.

1-3 L/ha every 2-3 weeks starting as early as pink bud until harvest



Pink bud  
(BBCH 57)



Full flowering  
(BBCH 65)



End of flowering -  
all petals fallen  
(BBCH 69)



Early fruit set  
(BBCH 71)



Fruit at 30% of  
its final size  
(BBCH 73)



Fruit at half its  
final size  
(BBCH 75)



Fruit at about 70%  
of final size  
(BBCH 77)



Fruit at about 90%  
of final size  
(BBCH 79)

**Fortalis** 

**CaT** 

Find more information on our CaT technology products for tree fruit at: [www.plantimpact.com](http://www.plantimpact.com) e: [info@plantimpact.com](mailto:info@plantimpact.com)