

Cotton

Veritas™ and Fortalis™ are advanced foliar sprays containing our patented CaT™ technology. They optimise calcium mobility for increased yield in cotton.



Benefits of Veritas and Fortalis

- ✓ Proven and consistent cotton increases
- ✓ No detrimental effect on fibre quality
- ✓ Proven compatibility with most fungicides, insecticides and other AgChem foliar sprays.

Nutrient content

Nutrient	Veritas		Fortalis	
	%w/w	g/L	%w/w	g/L
Ca	5	60	10	140
CaO equiv	7	84	13.9	195
N	4.5	54	8	112
Zn	1	12	0.8	11

CaT™ Calcium mobility technology

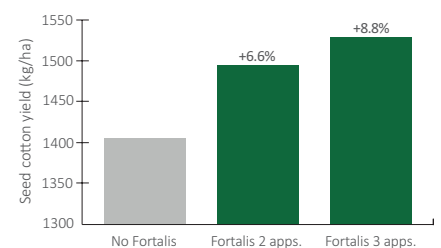
Calcium is an essential plant nutrient, principally taken up with water. It is vital for cell wall and membrane structure.

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.

Independent field trial data

Application timing

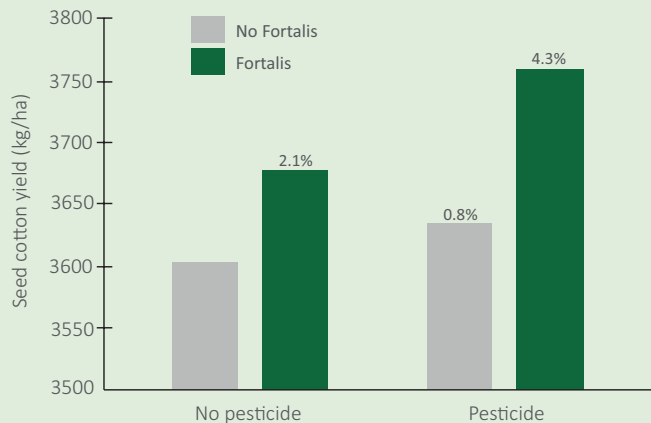
Fortalis was applied at 1 L/ha in five trials in Argentina. The product was applied with either two or three applications (two weeks apart) both starting at B1 (first floral bud/square). The average yield uplift with Fortalis was 108 kg/ha (7.7%) more than the control and this difference was highly significant ($P < 0.001$). Furthermore, three applications gave a significantly higher yield uplift than two applications ($P < 0.05$).



Compatibility with pesticides

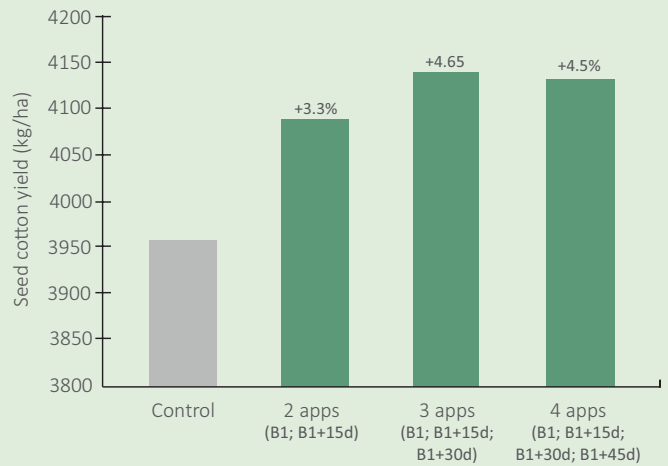
The trials were conducted at eleven sites across the US corn belt. The benefits of Fortalis in cotton were assessed with and without fungicides or insecticides in the tank mix. Fortalis was applied at 1 L/ha (14 oz/acre) at F1 (first flower opening) and again two weeks later.

Fortalis significantly increased ($P < 0.01$) the seed cotton yield by, on average, 3.2% or 115 kg/ha (103 lb/acre), which was greater than the effects of the fungicides/insecticides in these trials. Furthermore, there was no significant interaction ($P > 0.05$) with the fungicides and insecticides applied, indicating that the product can be safely tank mixed.



Spray timing and quality

Ten trials in Brazil were used to assess Veritas spray timing. 1 L/ha of Veritas was applied on two, three or four occasions, where sprays were two weeks apart and all started at B1 (first floral bud/square). The average yield uplift for the three applications was 181 kg/ha (+4.6%). Including a late fourth application gave no additional benefit.



Other trials have shown similar yield uplifts and assessments of fibre quality have shown that there was no significant effect ($P > 0.05$) of Veritas treatment on micronaire, length, strength, uniformity, or elongation.

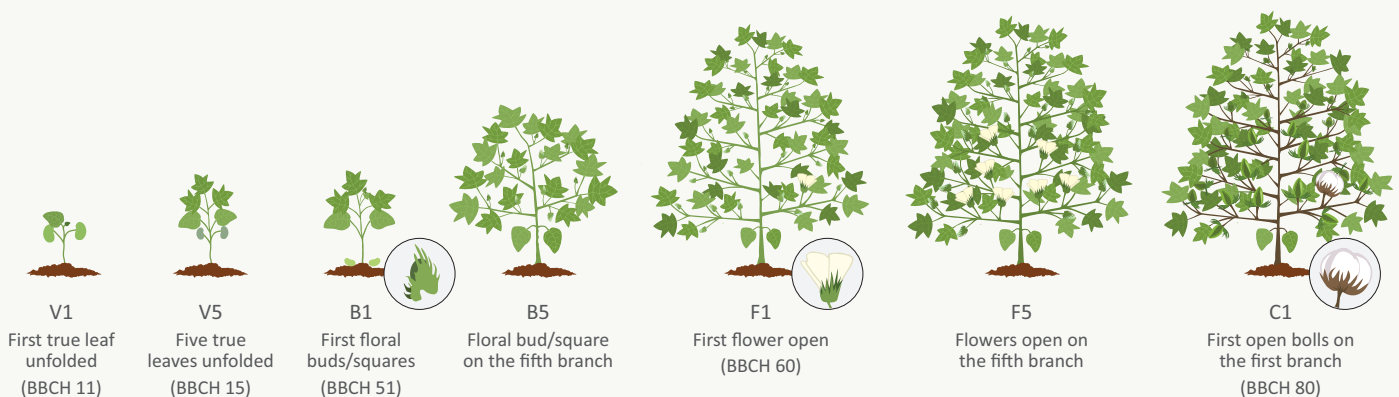


Directions for use

Shake well before use. Apply 1 L/ha at first floral bud/square (B1) and two further applications two weeks apart. Where just two applications are being used, we recommend the first application is applied at first flower opening (F1) and is followed by a second application after two weeks. For more detailed advice, consult your agronomist.

Tank mixing

Veritas and Fortalis are compatible with most fungicides, insecticides, 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.



Find more information on our CaT technology products for cotton at www.plantimpact.com



Plant Impact is part of Croda International plc
e: info@plantimpact.com



06/20 PIPOS009V1 EN