

# Fortalis™



An essential  
crop input

## Now Registered for Cotton to Increase Calcium Mobility

Fortalis™ can be applied on cotton with a fungicide, insecticide or crop nutritional and at a rate of 14 oz per acre for 2 applications at first flower and 14 days after.

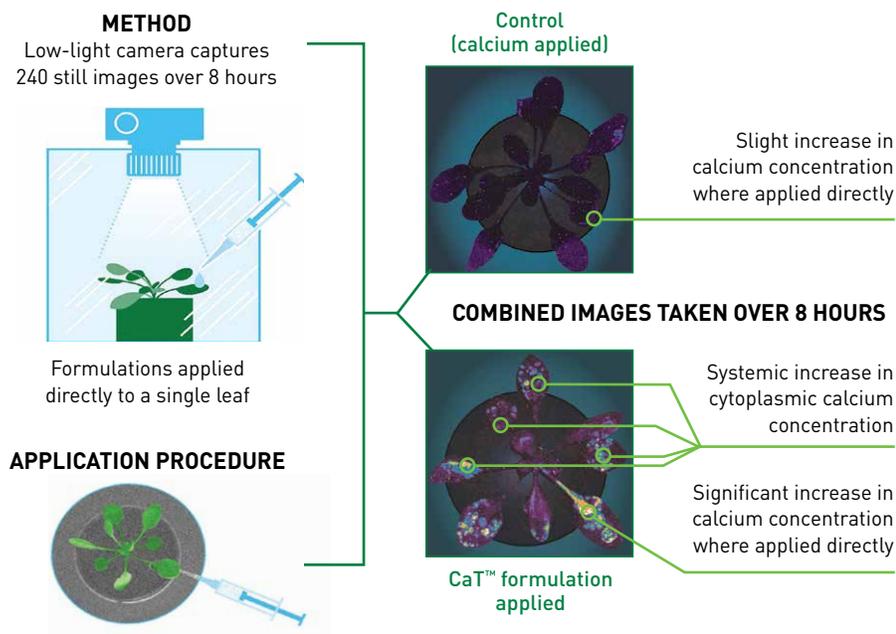
Average yield increase of 29 pounds of lint (112 pounds of seed cotton) per acre in North America when using Fortalis™ alone or with either an insecticide or fungicide tank mix.

### Calcium Facts in Cotton

- Not enough calcium means fewer flowers and lower boll weight.
- Foliar applications of calcium put more and larger seeds in the boll.
- More calcium = more modules = more \$\$\$

### Calcium Mobility Mode of Action Validated

Tests conducted at Lancaster University investigated the effect of CaT™, the patented molecule within Fortalis™, on calcium movement. *Arabidopsis thaliana* plants transformed with the aequorin calcium reporter system were used with an ultra-low light camera.

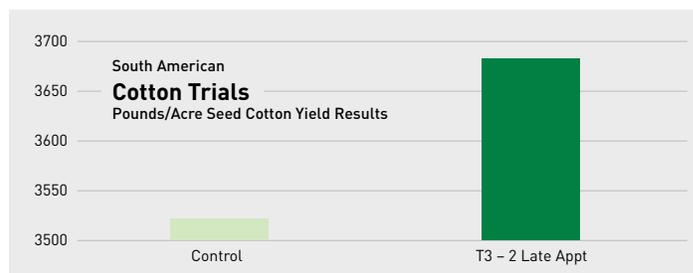
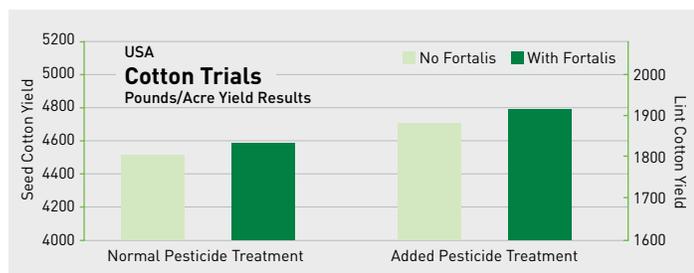


The images at left are composites of 240 images taken over 8 hours to show the emission of light where cytosolic calcium concentrations were elevated.

In the control image, we can see where calcium was directly applied to the plant as shown in the highlighted region in the lower right section. Systemic increases in calcium levels in other leaves were minimal.

However, when the same amount of calcium is applied along with CaT™, the active ingredient in Fortalis®, a significant increase in calcium concentration is visible where directly applied and in other parts of the plant. The conclusion is that the effect of CaT™ causes movement of calcium into cells and improves calcium distribution.

### Fortalis™ Trial Data on Cotton



For the high-yield cotton grower, Fortalis™ is not a discretionary add-on. It's an essential crop input that you need to get the most out of your crop.



Did you know you can apply Fortalis™ for just \$5+ per acre (on average)?

Talk to your local retailer about using Fortalis™ as a tank mix in your planned application program for cotton, or learn more at [FortalisYields.com/crops/cotton](http://FortalisYields.com/crops/cotton)

## Product Use Information

### Recommendations for Use:

**Soybean:** Fortalis™ can be applied to foliage of soybean plants using ground or aerial spray equipment during a period of plant growth that begins with the onset of flowering (R1 growth stage) and ends with initial pod development (R3 growth stage).

Fortalis™ should be applied at a rate of 14 fl. oz. per acre in an amount of water that promotes uniform coverage to plant foliage (at least 10 gallons per acre for ground application and 4 gallons per acre for aerial application).

**Cotton and dry beans:** Apply Fortalis™ alone and in a tank mix as a foliar spray at time of 1st flower and again at 2 weeks after. Fortalis™ should be applied at a rate of 14 fl. oz. per acre.

**Peanuts:** Apply Fortalis™ alone and in a tank mix as a foliar spray 30 days after planting and again 45 days after planting. Fortalis™ should be applied at a rate of 14 fl. oz. per acre.

**Alfalfa:** Fortalis™ can be applied at a rate of 14 fl. oz. per acre by itself or in tank mix with a fungicide or insecticide after each subsequent cutting of alfalfa.

Avoid applying Fortalis™ in extreme weather conditions, such as drought, high humidity, high temperature, low temperature, or rain. Use this product according to good agronomic practices, including using appropriate spray equipment calibrated for proper coverage.

### Mixing Instructions:

Wash all equipment before and after use.

Partially fill an application tank with water. Vigorously shake the Fortalis™ container and add Fortalis™ to the tank with constant stirring. Continue stirring while adding additional water as necessary to ensure Fortalis™ is applied in at least 10 gallons per acre for ground application and 4 gallons per acre for aerial application.

Fortalis™ should be applied with a nonionic surfactant and may be applied with pesticides. Tank-mixing: compatible with most pesticides, adjuvants and foliar fertilizers. Mixing with products containing high levels of sulfate or phosphate may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.

### Storage:

Store above 40°F (4.4°C) in a cool, dry place in original container and out of the reach of children, and animals, preferably in a locked storage area. Keep containers tightly closed and away from feed, food products and seed. Protect from freezing. Do not contaminate water, food or feed by storage or disposal.

### Disposal:

Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying and add rinse water to spray tank or dispose of at an approved waste facility.

Offer container for recycling, if available. If not recycled, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*For more information and where to buy Fortalis™, visit [FortalisYields.com](http://FortalisYields.com)*



**DID YOU KNOW?**

You can apply Fortalis™ for just \$5+ PER ACRE!\*

\*Approximate average cost based on Fortalis™ alone treatment