

Answers to Frequently Asked Questions



APPLICATION QUESTIONS

1. When is the best time to apply Fortalis®?

The best time to apply Fortalis® is during the R1-R3 stages of soybean growth, along with your application of fungicide or insecticide. Fortalis® can also be applied by itself during this time frame.

2. If I want to apply Fortalis® early, can I tank mix with a herbicide such as glyphosate or glufosinate?

Many cations including calcium and zinc can react with glyphosate, making the herbicide less effective, and therefore we don't recommend glyphosate or glufosinate tank mixed with Fortalis®. The proper timing of herbicides does not coincide with the appropriate timing of Fortalis® or a fungicide application. Tank mixing with a fungicide or insecticide has proven to be effective in providing a yield increase, and so Fortalis® with a fungicide or insecticide is the preferred tank mix partner.

3. Do you recommend a non-ionic surfactant with Fortalis®?

If tank mixing with a fungicide or insecticide, follow the labelled recommendation of the tank mix product on the use of surfactants. A jar test is always recommended to ensure optimal compatibility before first applications are initiated.

4. Do I need to apply Fortalis® with a fungicide?

You can tank mix Fortalis® with fungicides, insecticides, or other post non-herbicide products, or apply Fortalis® alone. Positive yield results and ROI occur if applied at the R1-R3 stage of soybean growth, due to the CaT™ technology in Fortalis®, which mobilizes calcium in the plant tissues.



CALCIUM QUESTIONS

5. What should the base saturation calcium be for soybeans soil test and calcium test level?

Fortalis® mobilizes available calcium in the plant tissue regardless! While we recommend you discuss your soil test with your consultant or retail agronomist to determine the optimal calcium levels for your individual field, the benefits of Fortalis® have been observed independently of soil calcium levels. This is because calcium can be deficient in tissues with low transpiration, such as flower and pod tissues, even with ample soil calcium.

6. Does calcium uptake become more important in a very high stress year, specifically in drought stress?

Calcium deficiencies are often more common in other crops when the soil water status fluctuates greatly; for example, in drought and rewetting scenarios. However, the benefits from CaT™ technology on soybeans have been remarkably consistent irrespective of the growing conditions.

7. Do soil pH and soil calcium levels impact Fortalis® performance?

We recommend you discuss this with your consultant or retail agronomist to determine the optimal calcium levels for your individual field; however, the benefits of Fortalis® have been observed independently of soil calcium levels. This is because calcium can be deficient in tissues with low transpiration, such as flower and pod tissues, even with ample soil calcium. The same applies to pH soil levels, and Fortalis® mobilizes available calcium in the plant tissue regardless!

8. How important is calcium through the roots vs. foliar-fed calcium?

The bulk of calcium uptake will be from the roots, although a foliar application can be especially useful in tissues with low transpiration and hence little calcium influx. This is especially the case in flowers and pod tissues. Using Fortalis® as a foliar application targets these tissues.



DATA/PERFORMANCE QUESTIONS

9. Is there local data in my area for Fortalis®?

Fortalis® has been extensively tested throughout all of the major soybean growing areas, and consequently there has been no correlation to yield differences in trials due to geographic area. This provides a very robust understanding of the benefits of Fortalis® under all types of environments, including various soil types and numerous varieties of seed groups at different maturities. To best determine your local data, a strip trial is recommended with the appropriate yield checks to validate the yield uplift. We would be happy to assist you in setting up the trial protocol!

10. Do you have data that is specifically for no treatment vs. fungicide only vs. fungicide and Fortalis®?

Yes! We have tested a multitude of tank mixes vs. Fortalis® alone, and untreated, to assure the consistency of our product is established.

(Continued)

MORE QUESTIONS?

We would be happy to answer any further questions or concerns. [Please contact us](#) for a prompt reply.

LET'S TALK ABOUT FORTALIS®

Answers to Frequently Asked Questions (cont.)

11. Have you seen a difference in the yield results of Fortalis® based on the soybeans' maturity?

Fortalis® has been tested on all soybean maturity types with no performance differences on maturity observed. Fortalis® works well across maturity types!

12. What impact does spray solution pH have on performance?

We have found no difference in performance with variable pH in the final spray solution. Fortalis® works well across pH differences!

13. Do you have any before and after tissue test results that show whether elements were freed up or tied up as a result of a Fortalis® application?

We have not done this type of testing, but have done extensive studies on mode of action of CaT technology to show calcium mobility with [Lancaster University](#).

14. Have you conducted any Fortalis® trials with micronutrients?

We are just initiating tests of micronutrients in the US, but over 20% of Veritas, the South American product with the same active ingredient as Fortalis®, is tank mixed with various micronutrients and has produced significant success.



PRICE/REBATE QUESTIONS

15. What soybean yield results do you need for Fortalis® to pay for itself?

Approximately 0.5-0.6 bushel of soybeans, pending soybean pricing, will pay for the net cost of Fortalis® after rebates. Applied alone, Fortalis® on average delivered a 1.9 bushel per acre vs. untreated check. Go to our [ROI Calculator](#) page to calculate your own ROI and net profits.

16. What rebate programs are available?

Fortalis® offers rewarding rebates which are found in our grower rebate program. See our [Resources](#) page for the 2018 grower rebates.

17. What is the price of Fortalis®?

Consult your preferred retail dealer for current Fortalis® pricing. For a list of available retailers, see our [Where to Buy](#) page.

18. What is the ROI from Fortalis®? Why should I spend the extra money?

Fortalis® has very good ROI of approximately 3:1. Let's assume, on average, the price of soybeans is \$10 per bushel. When using Fortalis® alone and with a consistent yield response of 1.9 bushels per acre, Fortalis® delivers 3.0:1 ROI and a profit of \$12 per acre. When applied with a fungicide and with a consistent yield response of 4.5 bushels per acre, Fortalis® helps deliver a 2.8:1 ROI and a profit of \$29 per acre. Using these numbers, it is reasonable to expect a bushel of beans profit per acre after your Fortalis® rebates. Go to our [ROI Calculator](#) page to calculate the potential ROI and net profit.



OTHER QUESTIONS

19. What impact do P&K level have on yield response?

We have not completed measurement studies on the variability of P&K soil levels.

20. What distributors or retailers have Fortalis® available for sale?

We partner with major distribution partners, including GROWMARK, Helena, MFA Incorporated, Van Diest, Wilbur Ellis, and Winfield United. To see our full list of Fortalis® retail locations, visit our [Where to Buy](#) page.

21. What percent of blooms have dropped by the time R3 arrives on a field?

While the actual number varies widely given location, weather conditions, and other critical factors, approximately 50%-60% of blooms have dropped by the R3 soybean growth stage. Applying Fortalis® at the R1-R3 stage is recommended to help decrease the amount of blooms that have dropped and in turn assist in retaining pod count and thus increase yield.

MORE QUESTIONS?

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