

Excalibre SA²

Encapsulated Inoculant for Soybeans



TECHNICAL INFORMATION

Excalibre SA² Package Size:	One package contains 2 lbs. by weight (0.907 kg)	Excalibre SA² Formulation/Specification:	Dry powder 5.5 x 10 ¹⁰ <i>Bradyrhizobia</i> cfu/g 5.5 x 10 ⁸ <i>Trichoderma</i> cfu/g
Excalibre SA² Application Rate:	0.05 oz. (by weight) per 140,000 units soybean seed	One Package Excalibre SA² Treats:	640 x 140k units soybean seed
Extender Pack Size:	One pack contains 2.5 gallons	Extender Formulation:	Starch-based liquid polymer
Extender Application Rate:	0.5 oz. (by volume) per 140,000 soybean seed. Extender should always be mixed and applied with Excalibre SA ²	One Package Extender Treats:	640 x 140k units soybean seed
Case Contains:	1 x 2 lbs. pack per case Excalibre SA ² 1 x 2.5 gallons pack per case Extender	One Case Treats:	640 x 140k units soybean seed

APPLICATION DIRECTIONS

Application Directions:	<p>Excalibre SA² is a suspendable powder designed for use in a liquid tank mix in commercial seed treatment systems with good agitation to maintain product suspension. For good seed coverage, Agrauxine Corp. generally recommends a minimum of 2.5 oz. liquid per 140,000 units of seed, in any combination of non-chlorinated water and approved liquid seed treatments. Experienced seed treaters may choose to decrease the total volume applied.</p> <ol style="list-style-type: none"> 1. Remove or replace screens. Maintain agitation at all times. (Contact Agrauxine for recommendations). 2. Measure Excalibre SA² by weight only, measure extender by volume only. 3. Please refer also to "detailed mixing and application instructions" on the reverse of this sheet. 4. For best results do not apply with atomization and use separate mix tank for inoculant only.
Tank Mix Time Restrictions:	<p>To maintain inoculants viability, there is a maximum time Excalibre SA² can be kept in the mix tank:</p> <ol style="list-style-type: none"> 1. Excalibre SA² alone or with non-chlorinated water should be applied to seed within 24 hours. 2. With approved seed treatments, Excalibre SA² should be applied to seed within 4 hours.
Compatibility with Seed Treatments:	<p>Excalibre SA² is tank-mix compatible with certain seed treatments and can be co-applied several days prior to planting. Follow the guidelines below or contact your Agrauxine Corp. representative or call 1-877-617-2461 for a complete listing of approved products.</p>
New Soybean Ground or Adverse Crop Conditions :	<p>EXCALIBRE SA² RECOMMENDATIONS FOR ADVERSE CONDITIONS OR NEW "VIRGIN" SOYBEAN FIELDS: If soil has not hosted the specific legume for more than three (3) years; Soil pH is less than 5.8 (The pH should be adjusted by liming prior to inoculation); Soil pH is more than 8.5; Soil organic matter is less than 1%; Drought or flooding has occurred; Topsoil conditions exceed 80° F; Soil erosion, or with the use of soil treatments and chemicals injurious to soil bacteria and inoculants, to Maximize Soybean Yield Potential: When planting soybeans under the conditions listed above, Agrauxine recommends a double (2X) rate of inoculants.</p> <p>Follow these recommendations: If using an Excalibre SA² product, achieve a 2X inoculants rate as follows:</p> <p>A. Apply a 1X rate of Excalibre SA² no more than 30 days prior to planting.</p> <p>B. Additionally, apply at planting, a 1X rate of America's Best Inoculant formulation: ABI Sterile Peat.</p> <p>Please contact your representative at 877-617-2461 for a specific recommendation.</p>

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DETAILED MIXING & APPLICATION INSTRUCTIONS

Excalibre SA² Encapsulated Inoculant is a wettable powder combination containing a highly concentrated formulation of rhizobia and trichoderma, using a small amount of product to achieve high active ingredient seed loading, while keeping the volume of seed-bridging liquid to a minimum.

MIXING ORDER:

Best results are achieved when bucket slurring any needed water, adding Excalibre SA², mixing completely, then adding the extender polymer.

- (1) Calculate batch quantities for all mix components
- (2) Measure and add **NON-CHLORINATED WATER** to a mix container or treatment tank
- (3) Measure and add Excalibre SA² powder to the mix container or treatment tank containing liquids
- (4) Mix or stir contents in the container, then only after powder has dispersed, add extender
- (5) Agitate and add to seed treatment tank if in a separate container
- (6) Maintain agitation as long as Excalibre SA² is in the treatment tank
- (7) Adhere to tank mix time restrictions listed in "Application Directions"

MEASURE EXCALIBRE SA² BY WEIGHT:

If an accurate scale is not available, contact your Agrauxine Corp. representative or call 877-617-2461, and a scale will be supplied.

EXTENDER POLYMER:

The extender polymer included with Excalibre SA² is an integral part of the Excalibre SA² system and must be used in accordance with label instructions for proper results.

AGITATION:

Excalibre SA² is a highly dispersible wettable powder. Good mix tank agitation is necessary to maintain suspension. If the mix tank does not have agitation, Agrauxine Corp. will easily and economically provide and install a **recirculation kit** to most popular treaters.

IN-LINE SCREENS:

Most typical-mesh in-line screens will require simple modification.

- (1) Remove line screens entirely
 - Take care to prevent soybean seed from entering the mix tank and plugging hoses.

Or:

- (2) Install 16 mesh screens. This size mesh will allow Excalibre SA² to pass through
 - For screens contact your Agrauxine Corp. representative or call 877-617-2461. Agrauxine Corp. will supply a replacement screen with cartridge at no charge. (Be sure to know your line diameter.)

SPRAY NOZZLES:

Excalibre SA² suspension **will not** successfully flow through typical seed treater nozzles including flat fans. Avoid the use of a spray nozzles with Excalibre SA². Agrauxine Corp. can easily and economically provide and install an alternative for most popular treaters spray nozzles.

HOSE LINES:

Excalibre SA² may settle out in hose lines with a combination of large diameter hoses and long hose length (for example, 20 feet of 1 inch diameter hose). If this occurs, shorten the hose length as short as possible, and change the hose to a smaller diameter to increase the velocity of material flow. Recalibrate pump. Contact your Agrauxine Corp. representative or call 877-617-2461 for tech support.