

# Excalibre SA<sup>2</sup>

## Encapsulated Inoculant for Soybeans



### TECHNICAL INFORMATION

<b>Excalibre SA<sup>2</sup> Package Size:</b>	One package contains 10 oz. by weight (284 grams)	<b>Excalibre SA<sup>2</sup> Formulation/Specification:</b>	Dry powder 5.5 x 10 <sup>10</sup> <i>Bradyrhizobia</i> cfu/g 5.5 x 10 <sup>8</sup> <i>Trichoderma</i> cfu/g
<b>Excalibre SA<sup>2</sup> Application Rate:</b>	0.05 oz. (by weight) per 140,000 units soybean seed	<b>One Package Excalibre SA<sup>2</sup> Treats:</b>	200 x 140k units soybean seed
<b>Extender Pack Size:</b>	One pack contains 100 fl. oz.	<b>Extender Formulation:</b>	Starch-based liquid polymer
<b>Extender Application Rate:</b>	0.5 oz. (by volume) per 140,000 soybean seed. Extender should always be mixed and applied with Excalibre SA <sup>2</sup>	<b>One Package Extender Treats:</b>	200 x 140k units soybean seed
<b>Case Contains:</b>	2 x 10oz. packs per case Excalibre SA <sup>2</sup> 2 x 100 fl. oz. packs per case Extender	<b>One Case Treats:</b>	400 x 140k units soybean seed

### APPLICATION DIRECTIONS

<b>Application Directions:</b>	<p>Excalibre SA<sup>2</sup> 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 <b>non-chlorinated water</b> and approved liquid seed treatments. Experienced seed treaters may choose to decrease the total volume applied.</p> <ol style="list-style-type: none"> <li>1. Remove or replace screens. Maintain agitation at all times. (Contact Agrauxine for recommendations).</li> <li>2. Measure Excalibre SA<sup>2</sup> by weight only, measure extender by volume only.</li> <li>3. <b>Please refer also to "detailed mixing and application instructions"</b> on the reverse of this sheet.</li> <li>4. For best results do not apply with atomization and use separate mix tank for inoculant only.</li> </ol>		
<b>Tank Mix Time Restrictions:</b>	<p>To maintain inoculants viability, there is a maximum time Excalibre SA<sup>2</sup> can be kept in the mix tank:</p> <ol style="list-style-type: none"> <li>1. Excalibre SA<sup>2</sup> alone or with <b>non-chlorinated water</b> should be applied to seed within 24 hours.</li> <li>2. With approved seed treatments, Excalibre SA<sup>2</sup> should be applied to seed within 4 hours.</li> </ol>		
<b>Compatibility with Seed Treatments:</b>	<p>Excalibre SA<sup>2</sup> 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>		
<b>New Soybean Ground or Adverse Crop Conditions :</b>	<p><b>EXCALIBRE SA<sup>2</sup> RECOMMENDATIONS FOR ADVERSE CONDITIONS OR NEW "VIRGIN" SOYBEAN FIELDS:</b> 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 <b>Maximize Soybean Yield Potential:</b> When planting soybeans under the conditions listed above, Agrauxine recommends a double (2X) rate of inoculants.</p> <p><b>Follow these recommendations:</b> If using an Excalibre SA<sup>2</sup> product, achieve a 2X inoculants rate as follows:</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>A.</b> Apply a 1X rate of Excalibre SA<sup>2</sup> no more than 30 days prior to planting.</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>B.</b> Additionally, apply at planting, a 1X rate of America's Best Inoculant formulation: ABI Sterile Peat.</p> </td> </tr> </table> <p style="text-align: center;"><b>Please contact your representative at 877-617-2461 for a specific recommendation.</b></p>	<p><b>A.</b> Apply a 1X rate of Excalibre SA<sup>2</sup> no more than 30 days prior to planting.</p>	<p><b>B.</b> Additionally, apply at planting, a 1X rate of America's Best Inoculant formulation: ABI Sterile Peat.</p>
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# Excalibre

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## DETAILED MIXING & APPLICATION INSTRUCTIONS

Excalibre SA<sup>2</sup> 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 SA<sup>2</sup>, 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 SA<sup>2</sup> 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 SA<sup>2</sup> is in the treatment tank
- (7) Adhere to tank mix time restrictions listed in "Application Directions"

### MEASURE EXCALIBRE SA<sup>2</sup> 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 SA<sup>2</sup> is an integral part of the Excalibre SA<sup>2</sup> system and must be used in accordance with label instructions for proper results.

### AGITATION:

Excalibre SA<sup>2</sup> 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 SA<sup>2</sup> 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 SA<sup>2</sup> suspension **will not** successfully flow through typical seed treater nozzles including flat fans. Avoid the use of a spray nozzles with Excalibre SA<sup>2</sup>. Agrauxine Corp. can easily and economically provide and install an alternative for most popular treaters spray nozzles.

### HOSE LINES:

Excalibre SA<sup>2</sup> 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.