

# Fertigation

## Product Usage Guide



## At AEA, we think differently about agriculture.

1. **We believe in empowering life instead of suppressing it.**
2. **We believe a healthy plant will be more resistant to insects and disease. To start thinking about agriculture differently, we need to use our equipment differently as well.**

**AEA's regenerative products are unique formulations of naturally-derived minerals.**

If not properly handled, these natural products may:

- ⊗ **Damage pumps and equipment**
- ⊗ **Clog sprayer nozzles**
- ⊗ **Be hard to clean**

## Mixing Instructions

Read these instructions to avoid any problems when handling our products!

**Make sure you agitate, filter, and clean.**

**1. Store between 40-80°F and out of direct sunlight.**

### 2. Venting

- a. Containers may expand during shipping.
- b. Upon receipt, slowly unscrew lids to release pressure.
- c. Rinse the caps so they can self-vent.

**NOTE:** A biofilm often forms on the product's surface.

This is normal. Skim it off before agitating. Skimming isn't practical on totes. To remove biofilm, filter with 1/8" mesh after agitating.

**3. IMPORTANT: Agitate** thoroughly before each use to mix material from the bottom

- a. **There are many ways** to agitate totes and barrels:  
Tote mixer, air wand (pneumatic mixer) (under 40 psi), paint-mixer electric drill attachment, transfer pump recirculation, or trolling motor.

**b. We recommend** to use an air wand in the corners, then a tote/drill mixer.

**c. Use caution** when agitating certain products:

- i. **Do not** use an air wand with Accelerate™, SeaShield™, or MacroPak™. If using a mechanical mixer, do so with caution. These products can sometimes foam and expand
- ii. Rebound Manganese™, HoloCal™ and HoloPhos™ may expand while mixing with air wand or drill mixer. Keep an eye on them.
- iii. Rejuvenate™ swells rapidly by ~25% when agitated. Remove 25% from its container to create room for expansion. Use equal parts from original and new container. Recombine for storage.

**d. Avoid pumping undiluted products.** They're abrasive and may damage pumps.

- i. Get products out of totes by raising tote and using gravity.

- 4. IMPORTANT: Mix and Filter** *before* products go into the application tank.
- Use a mix/nurse tank equipped with recirculation (if necessary, mix in your spray tank).
  - Fill nurse tank with water before adding in products.
  - Dilute with water to achieve a desired consistency.**
  - Shake/agitate/mix products prior to pouring.
  - Pour products into nurse tank through a 15 mesh screen. Make sure the tank is recirculating.
  - If using multiple products, add them one at a time while recirculating.
  - Run nurse tank for 10 to 15 minutes until product is suspended.
  - Once mixed well, clean out filter. Then pump into fertigation system through a filter size that meets the systems needs. AEA products may not flow well through a filter finer than 40 mesh..

**5. If pesticides** are in your tank mix:

- Pesticides may burn leaves or cause problems when mixed with our products.
- Ensure the pH and EC lie within the range given on the pesticide label.
- Always do a jar test** before spraying when using non-AEA materials.

- 6. Drain and clean agitation** equipment after each use and before it goes into other containers. Use a line cleaner. This will prevent cross-contamination and clogs in your system.

## Injecting Instructions

### Ensure the product is agitated, filtered, and suspended in mixture before using.

- Premix with water in a batch tank prior to injection.
- Place the filter in-line before fertigation reaches the drip line.
- When using inoculants, maintain pressure under 40 psi to avoid damaging the microbes.
- Inject immediately after mixing for best results.
- Clean equipment and flush irrigation lines with clean water following injection.

## Product Combination Instructions

### Mineral Nutrients

- Fill the tank halfway with water and start agitation.
- Add SeaShield™ first, if part of the application.
- Continue agitating while adding the remaining liquid AEA products, then the rest of the water.
- Save HoloCal™, Holo-K™, and HoloPhos™ as the last liquid ingredients.
  - Do not combine other calcium and phosphorus products in an AEA tank mix without prior jar testing or other assurance of safety and efficacy.

### Inoculants

- Add inoculants after all nutritional materials.
- Make a slurry with Spectrum™ or other Tainio™ powders by mixing with water in a separate small container.
- Agitate, allow to hydrate, then add to the tank through a filter.
- BioCoat Gold™ should NEVER be added to a liquid solution.



Advancing Eco Agriculture

## Questions?

Contact your account manager, agronomist, or our Customer Care Team:

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