



Advancing Eco Agriculture

BioCoat Gold™

a dry-blended biological seed treatment and inoculant

BioCoat Gold™ is a blend of natural seaweed, concentrated humic substances and other nutrients designed to support germination and strong initial growth.

**Buy now to be
ready for all
your planting
this year!**

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**"What we've seen is a 50% increase of
root mass using the AEA products."**

– Keith M Oregon, Dryland Wheat



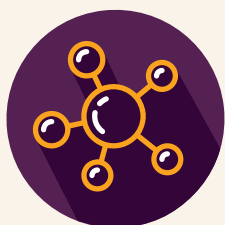
Before

After



Buy now to be ready for planting!

BioCoat Gold is a beneficial, dry mycorrhizal seed coat for all seed types that hastens earlier, more even seed germination – even in cooler soils. It also promotes strong and uniform seedling growth and establishes the microbial populations required to sustain access to nutrients and water throughout the growing season. There is no better way to get microbes working for you than to apply BioCoat Gold to every seed.



What's in BioCoat Gold?

BioCoat Gold combines seaweed, calcium, humic substances, and microbial inoculants. Seaweed supplies potassium to seedlings for vigor and robust root growth. Calcium aids germination by countering environmental inhibitors, and humic substances help microbes grow while providing the plant with more nutrients. Combining all the ingredients together improves microbes and nutrient availability for plants.



Application

Apply BioCoat Gold to seed at these ratios:

4 ounces BCG: 100 lb seed – or – 1 gram BCG per 1 lb seed

Note: very small seed will require more BioCoat Gold in order to treat a greater surface area.

Mix BioCoat Gold with seed directly in the planter box, seed bin, or bag prior to planting.

Where and how to use

BioCoat Gold is effective on many types of seeds, including corn, legumes, and small grains. To use it, it is best to coat the seeds before planting. If needed, it can be added to the top of the planter and will eventually coat the seed. However, the earlier seeds may not receive as much benefit as the later ones. BioCoat Gold is approved for use under NOP, but it's important to check with your certifier before using it.





Advancing Eco Agriculture

MacroPakTM

a shelf-stable and nutrient-rich blend

MacroPakTM is a shelf-stable complex blend of micronutrients that enhance sugar translocation, root strength, and overall plant vigor.



**A Pre-release
your plants
don't want
to miss!**

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"In my opinion as a degreed horticulturist, these are some of the best products available in the Western hemisphere."

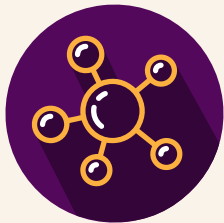
– M.H.

Buy now to be ready for planting!



MacroPak™ is a blend of macro-nutrients that helps form the foundation of a sound crop nutrition program. Nem qui odit qui sequiae ipid ulpa nus. Equo quiae mi, nient, od quis debit facia volorpor aut pra dolum esti officie nienihi litatur, numet atendel igenda pro estius et lab iunt. Sollectas earum dolupti cuptatus, omnim faccaborro endit exerum vellab ipsum recum vel ipisciet pos mod qui audandi oritior eperovit esendipsam

What's in MacroPak™?



MacroPak™ provides the major constituents of plant growth, focusing on photosynthesis, fruit fill and sugar transport. MacroPak™ is a combination of the primary nutrients Nitrogen, Phosphorus, Potassium and the 3 secondary nutrients of Calcium, Sulfur and Magnesium. Molorio te vendiorem ut evenda nam, nit magnitatur re net od et del iliquae. Modit officab orrovitassit essi

Application



Fruits and Vegetables: Use as a foliar on fruit and vegetable crops at a rate of up to 2 quarts each per week. In Irrigation: Apply 1-2 quarts each per acre every 10-14 days.

Broad Acre Crops: Use in the row, added to a row starter, at a rate of up to 6 quarts of MacroPak™ and up to 8 quarts of MacroPak™ per acre. Use as a foliar at a rate of up to 6 quarts HoloMac and up to 4 quarts HoloMic per acre, every 3-4 weeks.

Always check the label on the product or consult your local AEA representative for more details.

Where and how to use

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Advancing Eco Agriculture

MicroPakTM

ultra micronized micronutrient blend

MicroPakTM is a complex blend of micronutrients that enhance sugar translocation, root strength and overall plant vigor.



**Buy now to be
ready for all
your planting
this year!**

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**“What we’ve seen is a 50% increase of
root mass using the AEA products.”**

– Keith Morter
Dryland Wheat Grower

Features & Benefits



- Increases nitrogen fixation
- Improves nutrient uptake, especially calcium
- Provides enzyme cofactors and building blocks that enable plants to build complete proteins and complex compounds
- Encourages larger, stronger roots and better plant vigor

What's in MicroPak™?



MicroPak™ is a carefully formulated and unique blend of micronutrients.

MicroPak™ contains boron, zinc, manganese, copper, cobalt, molybdenum, and sulfur in a form which can be readily absorbed by plants. Boron is critical for transporting carbohydrates fruit. Zinc and manganese are both critical trace minerals needed for proper reproduction and seed formation. Many trace minerals have proven to be critical in enabling plants to produce plant secondary metabolites, which allows them to be more resistant to environmental stresses.

Application



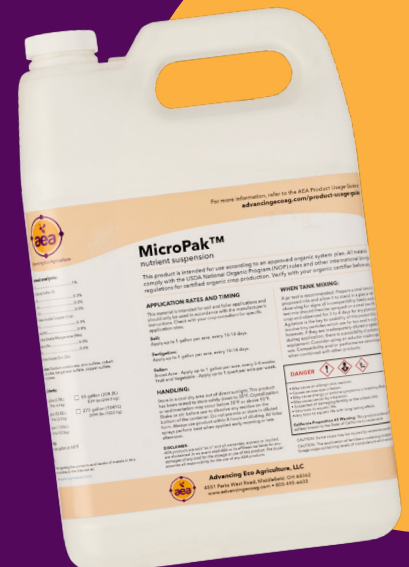
Use in the row, added to a row starter, at a rate of 1-2 quarts per acre. Use as a foliar on broad acre commodity crops at a rate of 1 quart per acre, every 3-4 weeks. Use as a foliar on fruit and vegetable crops at a rate of 1 pint per week. Irrigation: Apply 1-2 quarts per acre every 10-14 days. Check the label on the product or consult your local AEA representative.

While this product can be used individually, it has been designed to be used along with other complementary products as part of an overall fertility program that will produce the highest quality results. If you are currently not taking advantage of our consulting service, please call 800-495-6603 to get connected with an AEA consultant.

Where and how to use

MicroPak™ was designed to be added to a row starter or foliar spray for application on commodity crops to address trace mineral deficiencies common on commercial crops. MicroPak™ can be used in a soil drench, in a transplant solution, and in irrigation systems. It should be foliar applied when plants are low in micronutrients. MicroPak™ can be blended with most fertilizers.* DO NOT blend with glyphosate. Makes a very effective foliar on commercial crops when combined with PhotoMag™. This product is suitable for use under NOP. Please check with your certifier before using.

*A jar test should be conducted when mixing MicroPak™ with any other product.





Advancing Eco Agriculture

PinionTM

Controls crop diseases caused by various fungi and bacteria

PinionTM is AEA's first disease control product designed to protect the leaf surface from a wide range of fungal and bacterial pathogens—without disrupting the plant microbiome. Safe, effective, and easy to apply, Pinion creates an inhospitable environment for disease-causing organisms, helping crops resist new infections and suppressing existing foliar disease pressure.



Protection from fungal and bacterial pathogens

**"I wouldn't have believed this was possible,
if I hadn't seen it with my own eyes."**

– Jim Dunlop,
AEA Senior Agronomist

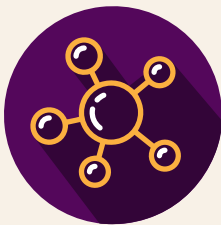
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How Pinion Works

Pinion™ functions through a combination of pesticidal effects from its active ingredients (citric acid and cinnamon oil), along with creating a physical barrier on the leaf surface through our proprietary blend of ingredients.

The result is disease control that integrates into a regenerative system by fostering healthy leaf surfaces without disrupting plant biology. Its mode of action has the potential to be effective against other fungal and bacterial infections as well.



Trials

Pinion™ promotes a healthy leaf surface that doesn't allow powdery mildew to proliferate. In our trials, Pinion™ has provided comparable control as powerful conventional fungicides, and superior control to organic fungicides

Organic Wine Grapes

An organic vineyard in Napa, CA applied styllet oil 4 times to the entire vineyard. After receiving Pinion™, the vineyard designated control and treatment blocks; the control received 3 more styllet oil applications while the treatment got 2 applications of Pinion™ at a rate of 4 quarts per acre.

Fewer active infestations

39% of observed clusters in the treatment block had active mildew infestations, while 31% did in the control block.

Less severity

59% reduction in the severity of powdery mildew in the treatment block over the control.

Wine Grapes

A conventional vineyard in Temecula, CA designated a control block that was treated with conventional fungicides, and a treatment block that was treated with Pinion™. The experimental block has a history of high disease pressure, including a complete crop loss from powdery mildew 2 years ago.

Comparable control to fungicides

AEA's agronomist walked 6 rows in the treatment block and observed only one single grape with powdery mildew.



Application

Fruits, Vegetables and Broad Acre Crops:

Dilution

Dilute with water. Maximum dilution is a 1% solution. Higher concentrations than that are better.

Preventative Rate

Apply 2–3 qt. per acre as a foliar, ~30 days after germination in annual crops, or once new plant growth is observed in perennial crops.

Responsive Rate

Following signs of disease development, apply 1 gallon per acre as a foliar. Requires 2 applications, 10–12 days apart.

Maintenance Rate

Apply 2–3 qt. per acre as a foliar, monthly.

AEA Farm Services

While AEA products can be used individually, they have been designed to be used along with other complementary products as part of an overall fertility program that will produce the highest quality results. If you are currently not taking advantage of AEA's Farm Services, please call (800) 495-6603.





Advancing Eco Agriculture

Revenant Charge™

Bring your soil back to life.

Revenant Charge™ is a low-cost, high-impact boost for soil biology. We designed it specifically as a cost-effective solution for row crop growers on a tight budget. Revenant Charge™ is a cheaper alternative to AEA's Regenerative Soil Primer that awakens existing soil biology by providing food and a favorable environment.



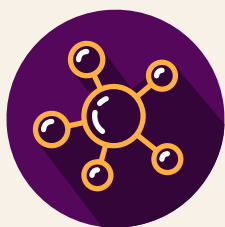
**Low-cost,
High-impact
Boost for Soil
Biology**

Why use Revenant Charge™?



We've seen countless times that boosting biology in the fall is the single **most effective** practice for reducing fertilizer in the coming year. Data from our field trials shows that Revenant Charge™ unlocks banked phosphorus and other tied-up nutrients, directly cutting your input costs and building long-term soil fertility. Revenant Charge™ is not just another expense; **it's the key** to accessing an existing, untapped asset on your farm. By enhancing the inherent biological function of your soil, Revenant Charge™ helps you save money by **decreasing both risk and inputs**.

Apply in the Fall. Save in the Spring.



A post-harvest application of Revenant Charge™ is the most strategic investment you can make to weather the uncertainty of the upcoming season. A fall Revenant Charge™ application gives the soil microbial community enough time to perform two critical functions:

Digest Crop Residue: Microbes break down high-carbon stalks and stubble, preventing nutrient tie-up in the spring.

Mobilize Nutrients: Biology releases plant-available nutrients from the soil all winter long, building fertility for the coming season.

When you plant in the spring, your soil will be primed with available nutrition, allowing you to make smarter, more accurate fertilizer decisions and significantly reduce your input budget.

Revenant is dead simple to apply.



- It's a **true liquid**.
- It runs seamlessly through a 100 mesh screen
- It's a single, standalone product. (though it can also be used in combination with inoculants like Spectrum™ or biological support products like Rejuvenate™, as needs and budget allow)
- NOP-Compliant
- Recommended application rate: 1-2 gal/acre.

AEA's Farm Services

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