

TEMPUS BLACK 22



NONTREATED

TREATED



Unlock Your Soil's Potential with Tempus Black 22

Humic substances (Humic and Fulvic acids) are essential to productive soil and are naturally derived from organic matter decomposition over millions of years. These potent organic compounds work to fundamentally restructure your soil, boost plant health, and most importantly, maximize your return on investment.

Key Benefits and Features

Healthier, Sustainable Soil

- **Feeds Beneficial Microbes:** Humic substances provide a vital carbon source and habitat for beneficial soil microorganisms, which play a key role in nutrient cycling and disease suppression.
- **Buffers Soil pH:** They help stabilize soil pH levels, making the soil less alkaline or acidic and maintaining an optimal range for plant growth.
- **Reduces Toxins:** Humic acids can chelate and bind to harmful pollutants and heavy metals in the soil, preventing them from entering the plant and promoting healthier crops.

Superior Nutrient Efficiency

- **Natural Chelators:** Humic and fulvic acids bind to essential nutrients (like iron, zinc, and manganese), making them more soluble and readily available for plant uptake.
- **Boosts Cation Exchange Capacity (CEC):** They increase the soil's ability to retain positively charged nutrients, reducing leaching and ensuring a more sustained, long-term nutrient supply in the root zone.
- **Maximizes Fertilizer Investment:** By increasing the bioavailability and uptake efficiency of N, P, and K, humic substances allow producers to achieve better results with less synthetic fertilizer, lowering input costs.

Robust Plant Growth and Improved Plant Health

- Stimulates Root Development: Humic and fulvic acids promote extensive root systems, which allow plants to access more water and nutrients and enhance overall plant vigor allowing for better stress tolerance.
- Increases Stress Tolerance: Plants treated with humic products show increased resilience to environmental stressors such as drought, salinity and extreme temperatures.

Enhanced Water Management

- Increases Water Retention: Humic acids act like a sponge, holding onto water within the soil profile and reducing evaporation, which helps plants endure drought conditions and lowers irrigation needs.
- Improves Infiltration & Drainage: By improving soil structure and creating a more porous medium, humic substances allow for better water infiltration, preventing waterlogging in clay soils and improving moisture levels in sandy soils.

Application

Tempus Black 22 is versatile and easy to use:

Soil Amendment
Use rate 0.5 to 10 gallons per acre

Fertigation
Use rate 0.5 to 10 gallons per acre

Drip Irrigation
Use rate 1.0 to 10 gallons per acre, not to exceed 3% solution

Foliar Spray
Use rate 1.0-4.0 quarts, not to exceed a 1/10 ratio per acre

Invest in your crop's future and your crops' success.

Contact your Tempus Ag sales rep for tailored application rates. For best results, always use a Tempus Ag adjuvant. This information is not intended to replace a label. Always read and follow label directions.

Do you want a more consistent ROI on your farm? Commit to trying **Tempus Ag's 3S System** and products. These proven tactics and products will improve your ROI per acre.

Start with the soil
Spray all applications with quality adjuvants
Supply foliar and biological products throughout the season

