



TEMPUS STUNNER



Unlock Your Spray's Full Potential with Tempus Stunner

The Power of Ammonium Sulfate and Defoamer

You invest heavily in crop protection products. Ensure every dollar you spend translates into maximum results. Adjuvants are the essential tool to unlock the full potential of your spray solutions.

Why Adjuvants Matter

An adjuvant is any substance added to a spray tank to improve the efficacy of a pesticide or modify its application characteristics. Think of them as performance enhancers for your chemicals. They improve applications by:

Enhancing Coverage: Reducing the surface tension of water, allowing spray droplets to spread evenly across the leaf surface.

Improving Adhesion: Helping the pesticide stick to the plant, preventing runoff and wash-off from rain.

Boosting Penetration: Enabling the active ingredient to move through the plant's waxy outer layer and into the inner tissue where it's needed most.

Reducing Evaporation: Slowing down the drying time of the droplet, giving the plant more time to absorb the chemical.

Mitigating Drift: Modifying spray characteristics to keep the product on target, ensuring application safety and efficacy.

The Stunner Advantage: Reduce Hard Water Antagonism and Boost Efficacy

Stunner is a dual-action, liquid formulation designed to condition your spray water and reduce foam in a single, easy-to-use product. Ammonium Sulfate (AMS) unlocks the full potential of your pesticides, ensuring consistent and powerful performance in every tank mix.

Many common agricultural pesticides (especially weak-acid herbicides like glyphosate, glufosinate, and 2,4-D) can be compromised by hard water. Minerals in the water, such as calcium, magnesium, and iron, bind to pesticide molecules and prevent the plant from absorbing them effectively.

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Stunner overcomes this antagonism through a two-fold process:

- **Water Conditioning:** The sulfate ions from the AMS preferentially bind with the hard water cations.
- **Enhanced Uptake:** The ammonium ions bind weakly with the herbicide molecules, forming an ammonium-salt complex that passes through the waxy leaf cuticle more efficiently.

Maximizing Your ROI

By using the correct adjuvant, you ensure that every ounce of your crop protection product works as intended. The result? Better pest control, healthier crops, and improved return on your investment.

Applications

Tempus Stunner is easy to use:

This product contains an antifoam/defoamer. Under extremely hard water conditions the addition of a highly soluble ammonium sulfate may also be required. 1-2 quarts of this product per 100 gallons of spray solution.

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

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

Do you want a more consistent ROI on your farm? Commit to trying **Tempus Ag's SyStemS** approach. Incorporating these proven tactics and products will improve your ROI.

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



Unlock Peak ROI with the Integrated Tempus Ag's 3S System