



SYNC[™]
FUNGICIDE ACTIVATOR



Turn it On.

ENERGIZE
YOUR FUNGICIDE



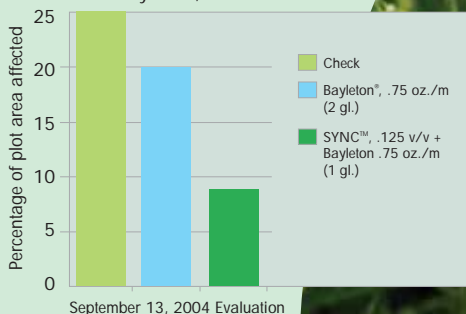
Optimized Fungicide Performance

SYNC is a unique, proprietary adjuvant technology proven to enhance the performance of both contact and systemic fungicides, and to lengthen disease control at reduced water volume on a wide variety of turf diseases.

Better Disease Control and Improved Turf Health

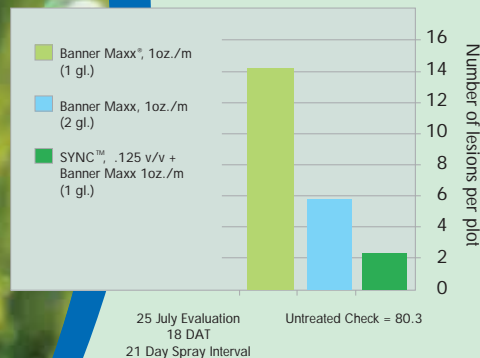
2004 Dollar Spot Trial

Dr. Randy Kane, CDGA



Additional research is available at www.precisionlab.com/sync

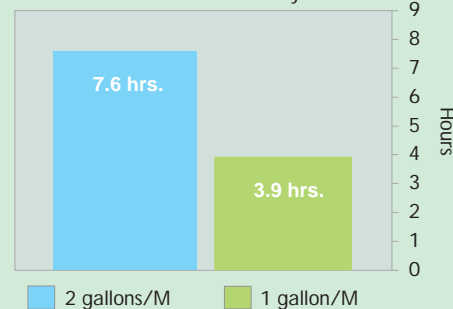
2005 Dollar Spot Trials Dr. Bruce Clarke, Rutgers University



Less Water Less Labor Less Time

Effect of Spray Volume on Application Time

30 Acres of Fairways



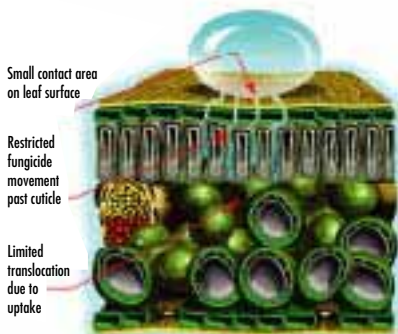
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SYNC Outperforms Ordinary Adjuvants

The majority of adjuvants on the market today are simply not formulated to enhance the biological activity of fungicides.

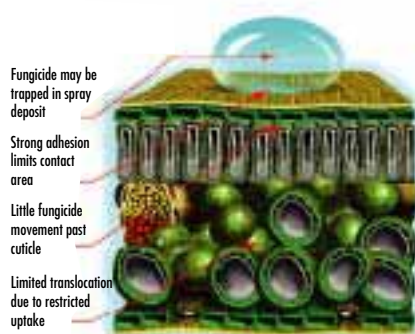
Unlike these ordinary adjuvants, the SYNC technology is designed to effectively manage the complex interaction between host plant, fungus, fungicide, active ingredient and formulation.

Water Characteristics



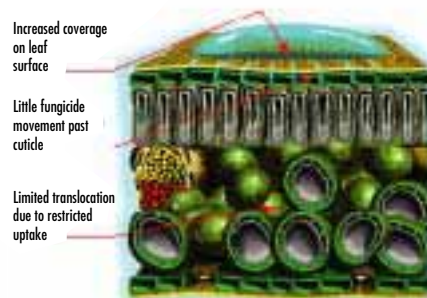
A water droplet beads onto the plant surface with limited surface area. Adjuvants reduce the surface tension of water to increase the area of coverage.

Sticker Characteristics



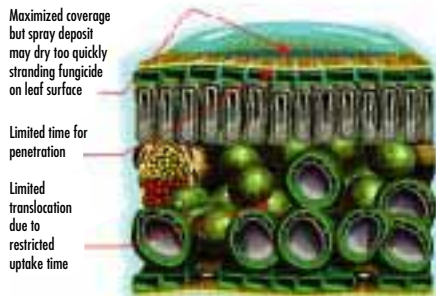
Sticker adjuvants form a barrier on the leaf surface, entrapping the fungicide and preventing penetration through the cuticle.

Spreader Characteristics



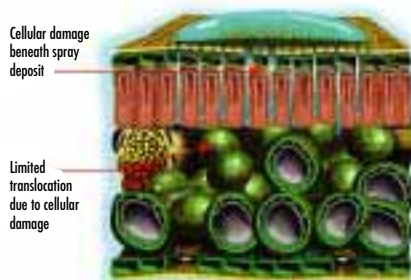
Spreaders increase the surface area of the spray deposit, but may dry too quickly for the fungicide to reach its target.

Super Spreader Characteristics



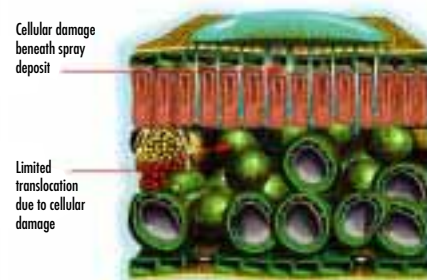
Super spreaders improve coverage, but they either carry fungicide off of leaf blade or they create a thin spray deposit that dries too quickly and traps fungicide, limiting penetration into the plant.

Crop Oil Concentrate Characteristics



Crop oils may improve the uptake of oil soluble fungicides but have been shown to cause cellular damage under the spray deposit – which leads to reduced translocation and bio-efficacy of the fungicide as well as phytotoxicity to the host plant.

Cationic Surfactant Characteristics



Cationic surfactants have been found to cause significant phytotoxicity to host plants, causing many universities to specifically recommend against their use. SYNC has never demonstrated risk of phytotoxicity in over 5 years of research.

A Breakthrough in Adjuvant Technology

The fungicide activation process is complex. Balancing the efficacy of the fungicide with the formulation requirements frequently means a compromise to either uptake or stability.

That's why SYNC was developed.

SYNC is the only multi-component, 100% active surfactant system, formulated to optimize the uptake and biological efficacy of a wide range of fungicides.

SYNC improves the viability of the spray droplet, keeping the fungicide in an available state for a longer period of time.

Each SYNC component plays a critical role.

A non-ionic carbohydrate-based surfactant with excellent spreading, wetting and sticking properties decreases droplet surface tension. This creates a larger area of contact with the surface of the leaf for better coverage of contact fungicides, and greater uptake of systemic fungicides.

An amine polymer complex modifies the waxy surface of the leaf to ensure more rapid and efficient penetration of the fungicide into the intracellular plant tissue. This allows a targeted response to the disease without damage to the cellular structure of the leaf.

A buffer is present to optimize solubility, and ensure compatibility in the spray tank.

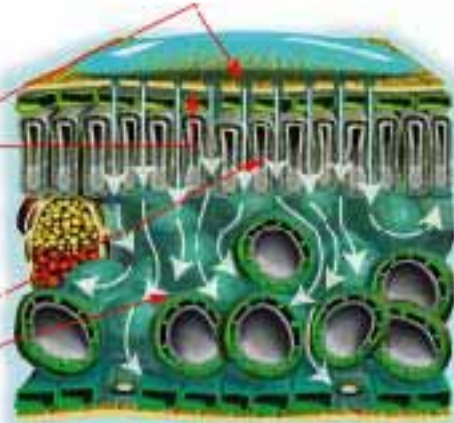
SYNC™ Characteristics

Improved coverage and adhesion to leaf surface

Modification of cuticle for increased penetration of water soluble and oil soluble fungicides

Prevents cellular damage beneath spray deposit

Optimized translocation



USE RATE: Apply SYNC at 1 pint (16 fl. oz./473 ml) per 100 gallons (378.5L or 0.125 v/v) of spray solution.

ENERGIZE YOUR FUNGICIDE



Get the facts for yourself.
University research is available at
www.precisionlab.com/sync

SYNC's multi-component surfactant system optimizes the uptake and biological efficacy of a wide range of fungicides.

SYNC™
FUNGICIDE ACTIVATOR



Turn it On.

Over 40 Years on Technology's Cutting Edge

Since 1962, Precision Laboratories has been known as a leader in surfactant chemistry with the most widely researched and field-tested products in the industry. It is with this expertise and the company's commitment to high quality, best-of-class technology that SYNC Fungicide Activator was developed.

SYNC, a unique, proprietary adjuvant technology gives turf professionals:

- Maximized fungicide performance against a wide range of turf diseases
- Greater longevity of disease control
- Improved turf health
- Optimized playing conditions
- Ability to reduce water volume, application time, labor, and interference with play



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