



# **STRIKELOCK® ADJUVANT GUIDE**

**WINFIELD®  
UNITED**



# StrikeLock®

By WINFIELD  
UNITED

## Adjuvant

### DRIFT & DEPOSITION AID WITH CONCENTRATED MSO ENHANCES OIL-LOVING HERBICIDE PERFORMANCE

#### Drift and deposition aid plus a HSOC-MSO

StrikeLock® adjuvant is a high surfactant oil concentrate with a drift and deposition aid that is designed to improve the performance of oil-loving herbicides.

Whether applying StrikeLock in a burndown or in-season application, optimizing deposition and limiting drift is always important for optimal weed control.



#### Features & Benefits

Proprietary formula specifically designed to target the needs of oil-loving herbicides (coverage and activity):

- Drift Reduction - exceptional drift reduction
- Canopy Deposition - increases depth of deposition and improves coverage to support uptake of herbicides
- High Oil Content - contributes to increased herbicide activity
- Improved Handling - better flowing oil vs. traditional high surfactant MSO

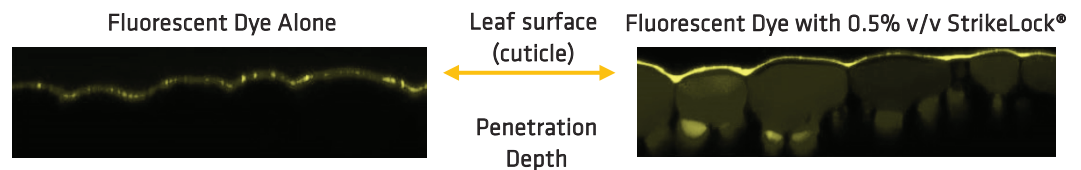


#### Use Rate

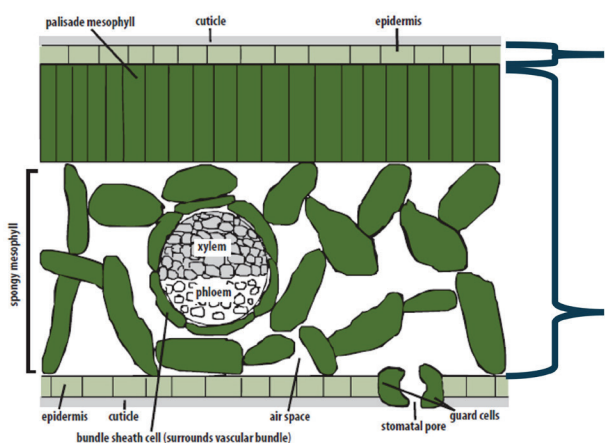
0.5% v/v or 8 ounces/acre. Do not use less than 6.4 ounces per acre.

StrikeLock may be used at rates that are similar to other high-surfactant MSO rates.

#### StrikeLock® helps enable leaf cuticle penetration\*



## WHERE ARE WE TRYING TO GET THE HERBICIDE?

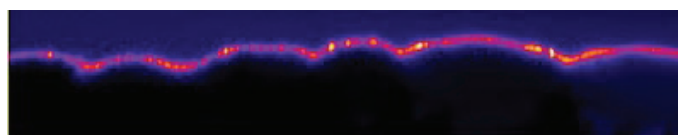


The cuticle and epidermis are the weed's main defense against herbicide applications.

The cuticle width can change based on weather conditions. Dry and hot = thicker cuticles

Palisade and Spongy mesophyll are where most of the physiological functions of the weed occur.

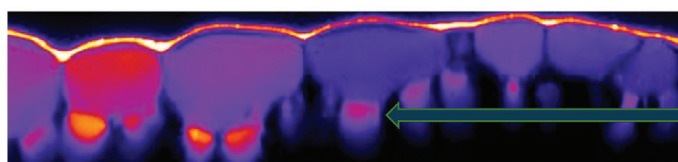
## STRIKELock® CAN HELP DRIVE HERBICIDE DOWN INTO THE PALISADE MESOPHYLL TO DISRUPT KEY PHYSIOLOGICAL PROCESSES.



NO ADJUVANT

Color is fluorescent dye applied to a leaf surface with and without StrikeLock.

StrikeLock drives the fluorescent dye to the palisade mesophyll.



STRIKELock® ADJUVANT (0.5% V/V)

Cuticle  
Epidermis  
Palisade Mesophyll

## ADJUVANTS REDUCED THE AMOUNT OF DICAMBA REMAINING ON THE LEAF SURFACE 24 HOURS AFTER APPLICATION

Treatment*	Percent** of Dicamba Applied Remaining on Leaf Surface 24 HAA***	Percent of Maximum Dicamba Uptake 24 HAA†
XtendiMax® (XMX)	67.4 a	32.6
XMX + Optify® 4X	46.2 b	53.8
XMX + Optify® 4X + StrikeLock®	3.5 c	96.5
XMX + Valcheck® III	55.5 b	44.5
XMX + Valcheck® III + StrikeLock®	9.2 d	90.8
XMX + Class Act® Ridion® + Volt-Edge® + UltraLock™	24.1 c	75.9
XMX + Class Act® Ridion® + Volt-Edge® + UltraLock™ + StrikeLock®	5.2 d	94.8
P-Value	<0.0001	-

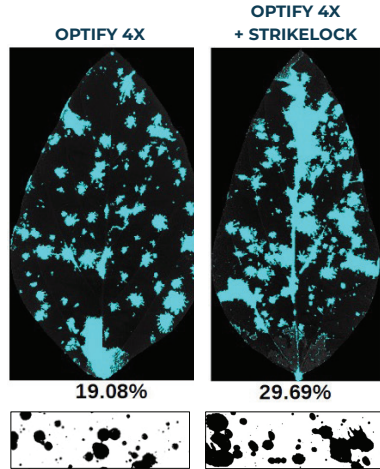
\*Xtendimax® (22 fl oz/A), Class Act® Ridion® (0.5% v/v), Optify® 4X (1.75% v/v), StrikeLock® (10 fl oz/A), Valcheck® III (1.4% v/v), Volt-Edge® (20 fl oz/A), and UltraLock™ (6 fl oz/A) were applied with a glass syringe at a spray volume of 15 GPA as 15-droplets totaling 10 µL in a leaf residue study in 2023 in River Falls, Wisconsin.

\*\*Treatment means are the average of three replications from a single leaf residue study. Means followed by the same letter are not statistically different by Tukey's Honest Significant Difference test with a confidence level of 95%.

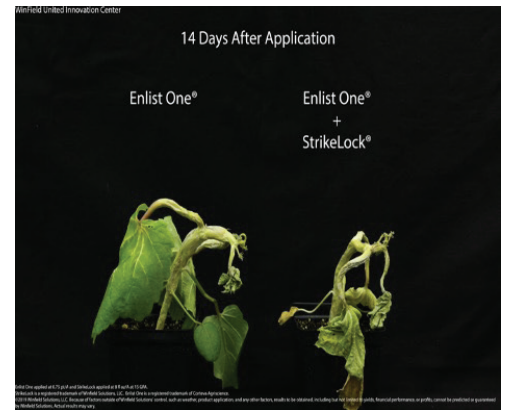
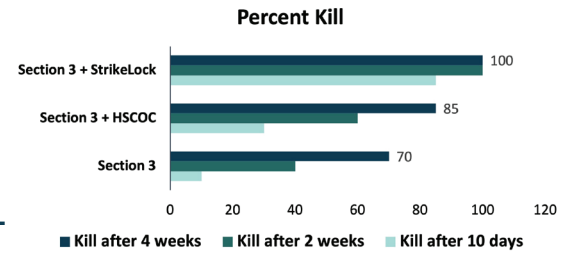
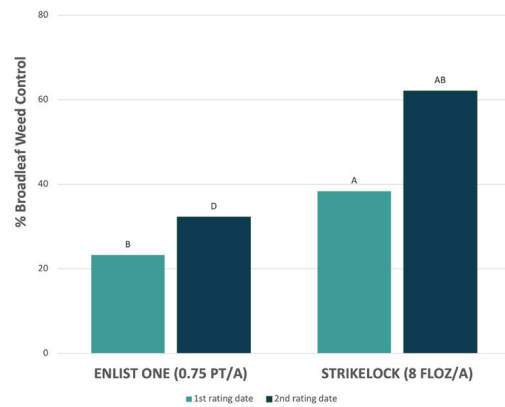
\*\*\*HAA = Hours after application.

†Percent of potential uptake calculated by (100-Percent of Dicamba Remaining on Leaf Surface). Assay only measures amount of active ingredient on leaf surface and not in plant. Active ingredient losses could occur preventing the assumption that all active ingredient not measured on the leaf surface has entered the plant.

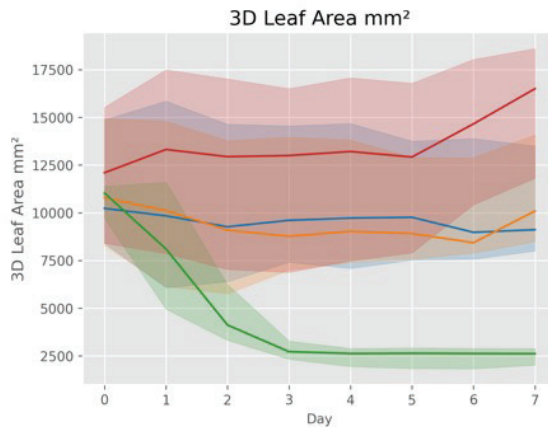
# STRIKELock IS A GREAT ADJUVANT TO INCLUDE IN MANY HERBICIDE APPLICATIONS.



## ENLIST ONE + STRIKELock INCREASE BROADLEAF CONTROL



# SHARPEN® HERBICIDE + STRIKELock® ADJUVANT REDUCED 3D LEAF AREA 7 DAYS AFTER APPLICATION VS THE UNTREATED CHECK IN GREENHOUSE TRIAL

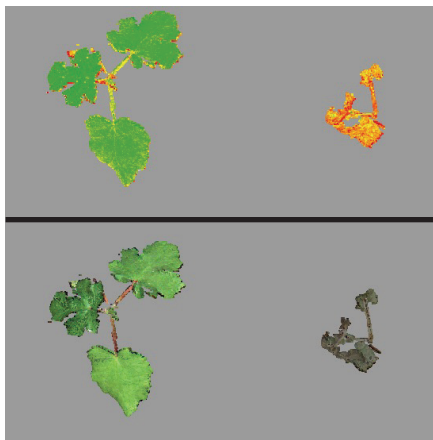


Treatment	Post-hoc letters (P < 0.05)
Sharpen® 1.5 fl oz/a	ab
Sharpen® 1 fl oz/a	ab
Sharpen® + StrikeLock® 1 fl oz/a + 8 fl oz/a	b
Untreated Check	a

— Sharpen 1.5 fl oz/a  
 — Sharpen 1 fl oz/a  
 — Sharpen+StrikeLock 1 fl oz/a+8 fl oz/a  
 — Untreated Check

Location: Controlled Environments - WFU IC  
 P-value: 0.0214, medians represented with 10th and 90th percentiles  
 Year(s) of Trial: 1  
 Replications: 4  
 Application Timing: Okra V2

# VISUAL OBSERVATION OF OKRA TREATED WITH SHARPEN® HERBICIDE AND STRIKELock® ADJUVANT



NDVI 3D MODEL (RED-ORANGE-YELLOW-GREEN REPRESENTING LOW TO HIGH NDVI VALUES)

RED-GREEN-BLUE 3D MODEL

UNTREATED CONTROL

SHARPEN® + STRIKELock®