




Aqua Reslin[®]

Enjoy the advantages of FFAST[®].

*No mosquitoes,
no comparison, no problems.*





FFAST[®], film-forming aqueous spray technology,
is an anti-evaporant formulation that allows droplets to remain stable while drifting over the swath necessary to obtain effective coverage and results.

Effectively control mosquitoes with water-based Aqua-Reslin® and FFAST®.

FFAST advantages

FFAST stands for Film Forming Aqueous Spray Technology. Developed by Bayer, this proprietary technology allows a water-based insecticide to act like an oil. It helps prevent evaporation allowing droplets to reach their target.

/// Quick knockdown

In as few as 10-15 minutes, mosquito landing and biting rates decrease significantly. They don't recover after knockdown and die quickly.

/// Excellent, broad-spectrum control

Mosquitoes exposed to Aqua-Reslin lose their legs, resulting in poor flight and feeding ability. This phenomenon is similar to that observed during the application of other pyrethroids, such as Permanone®. Aqua-Reslin is also effective against a variety of biting flies; such as black flies, stable flies, deer flies and midges.

*/// Fights resistant mosquito species**

Permethrin exhibits a different mode of action to organophosphates, helping prevent mosquito resistance when rotated with different classes of chemistry as part of an integrated control program. *See table.

/// Prevents a 'biting frenzy'

After a treatment with organophosphates, the biting activity of mosquitoes increases substantially. With Aqua-Reslin, this doesn't happen. Aqua-Reslin effectively knocks down and controls mosquitoes without the need for "benign agitation."

/// Easy to apply, easy to clean up

When diluted with water, Aqua-Reslin can be applied with standard ULV ground or aerial spray equipment. It's non-corrosive and non-flammable, and any residue can simply be rinsed away.

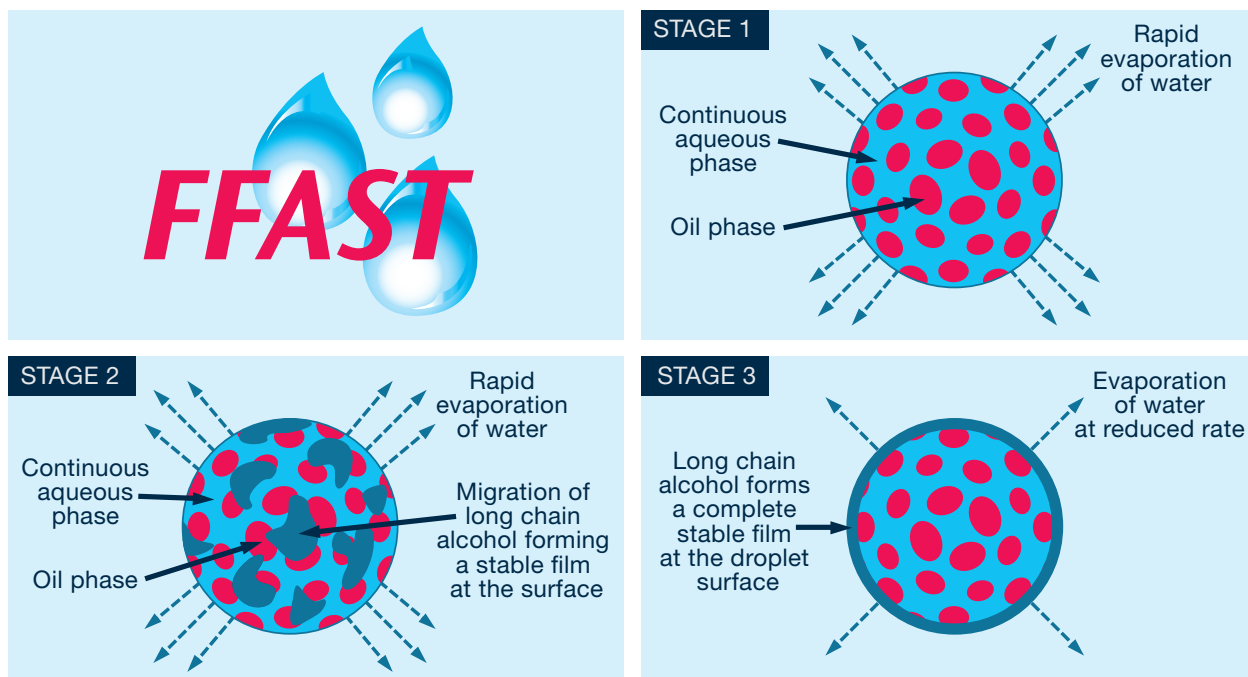
/// Low irritation level

Aqua-Reslin is less visible than oil-based sprays. It has only a slight odor and low hydrocarbon content. It is not an irritant to eyes, skin, nose or throat, making it perfect for sensitive situations.

/// Cost effective

Since Aqua-Reslin is diluted with water, no oil purchase or storage is required, saving you money.

Performance of an oil-based // spray – without the oil.



FFAST uses long chain alcohol molecules to form a protective film around each Aqua-Reslin droplet as it leaves the nozzle of a standard ULV sprayer. This film makes droplets highly resistant to evaporation, so they maintain optimum size and stability while drifting over treated areas. For maximum efficiency, the droplet sizes need to be within tight parameters, too big and they fall to the ground, too small and they may not impact the mosquito. Volume median diameter is 8 to 30 microns for ground applications and 60 microns or less for aerial application.

/// Aqua-Reslin contains the proven pyrethroid permethrin as the main active ingredient.

Pyrethroids are synthetic versions of the botanical pyrethrum, which is found in the chrysanthemum family. They exhibit very low toxicity to birds and mammals, have little or no odor and can be applied at lower use rates than other mosquito insecticides. With Aqua-Reslin, 20% permethrin is combined in a 1:1 ratio with the synergist piperonyl butoxide.

/// Aqua-Reslin effectiveness

State	Dosage lb. AI/Acre	Species	Average % Control
New Jersey	0.0035	<i>Aedes sollicitans</i>	83/97
South Carolina	0.00166	<i>Aedes taeniorhynchus</i>	99/100
	0.0035	<i>Aedes taeniorhynchus</i>	83/99
North Carolina	0.0035	<i>Aedes taeniorhynchus</i>	100
California	0.00177	<i>Aedes nigromaculis</i>	60/100
Arkansas	0.0035	<i>Culex quinquefasciatus</i>	81/94
	0.0035	<i>Anopheles quadrimaculatus</i>	92/99

/// Acute toxicity

Mammal Toxicity (Aqua-Reslin Concentrate)	
Oral LD50 (rat)	1000 mg/kg
Dermal LD50 (rabbit)	>5000 mg/kg
Primary eye irritation (rabbit)	Non-irritating
Primary dermal irritation (rabbit)	Slightly irritating
Dermal sensitizing	Non-sensitizing
Bird Toxicity (Permethrin Technical)	
Acute Oral LD50 (mallard duck)	>9.900 mg/kg

Permethrin, the active ingredient, has an acute oral LD50 in rates of greater than 4000 mg/kg body weight, and shows low toxicity to birds and mammals.

Bayer Internal Study: OE14USAVK01

/// Mixing Aqua-Reslin

- // When mixing, pour Aqua-Reslin into water. Do not pour water into Aqua-Reslin.
- // The pH of water does not affect the mixing or effectiveness of Aqua-Reslin.
- // Aqua-Reslin does not require filtering before mixing.
- // For droplet measurement:
 - Teflon: Spread factor = 0.61 (Source: j. Dukes, JAMARL)
 - Mg0: Spread factor = 0.86
- // Teflon slides should be covered and read within a few hours; read at least 200 drops.
- // AIMS: the probe should be placed in the air stream of the nozzle where the air velocity is from 4 to 7 meters/sec.

/// Facts about Aqua-Reslin

- // It cannot be diluted with oil; only with water.
- // The concentrate should be stored between 70°F to 95°F.
 - In colder temperatures, the product may thicken or freeze
 - Simply warm product to above 70°F to regain usability
- // The concentrate shelf life, if stored in its original container, is a minimum of 4 years.
- // Diluted product has been held in a tank for more than one week. Normal transport provides sufficient agitation to re-suspend diluted product.

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