

Improved Control Increased Coverage Less Insecticide

28% LESS INSECTICIDE

Silwet^{*} 408 Silicone Adjuvant for Insecticide on Apples



Crop: Apple

Location: Shandong Province, China

Adjuvant: Silwet 408 adjuvant

Adjuvant Rates: 0.025%; 0.05%

Insecticides: Abamectin 1.8% EC (Rates: 375 g/ha ; 270 g/ha)

Insects: Red mites (Panonychus citri Mcg)

Application: Tank mix

Application Spray Rates: 3000 L/ha; 1500 L/ha; 900 L/ha)

The Challenge

In China, red mites cause severe damage to apple crops. As the world's largest producer of apples with about 33 million tons of yield annually, China has a great need for effective red mite control. Currently, Chinese apple growers treat their orchards with insecticides such as Abamectin, to ensure high crop yields of high-quality produce. Yet they, like most growers, are constantly challenged to produce better quality and higher yields of apples while lowering production costs.

The Application

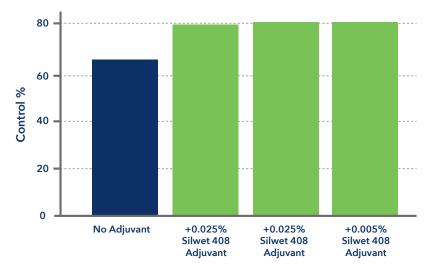
One approach to lower costs is to look for less costly insecticides, which are potentially less effective, increasing risk to the crop quality and yield. A better approach is to reduce overall application costs by making the insecticide application more efficient. This can be accomplished with the addition of Momentive's Silwet 408 adjuvant superspreader. The properties of this superspreader typically lead to improved spray coverage and lower spray volumes, enabling an applicator to treat more hectares with less insecticide and fewer tank mixes. Additionally, it can enhance the effectiveness of the insecticide by decreasing the surface tension of the spray. This approach can save time, reduce costs, and provide increased confidence in the effectiveness of the treatment.

To demonstrate its specific benefits, Silwet 408 adjuvant was trialed with standard 1.8 percent Abamectin EC insecticide spray treatments on apple trees.









Note: Test data. Actual results may vary.

Water	3000	900	1500	900
Active	375	375	270	270
Silwet 408 Adjuvant	n/a	0.025%	0.025%	0.05

The Results

Trials demonstrated the following benefits from the Silwet* 408 adjuvant addition to Abamectin insecticide sprayed on apple trees:

Improved control over application

80 percent or more control with the Silwet 408 adjuvant addition compared to only 66 percent control with no adjuvant treatment

More coverage per tank

50-70 percent lower volume, resulting in more hectares treated per tank (up to three times more hectares/tank) and potentially lower application costs

Less insecticide required for agrochemical mix 28 percent lower Abamectin insecticide dose rates

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Worldwide

commercial.services@momentive.com http://connect.momentive.com/agriculture/contact/ T +1 614 986 2495 T +1 800 295 2392

Europe, Middle East, Africa and India

T +00 800 4321 1000 T +40 21 3111848

North America Silicones

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