

Silwet* 408

Spray Adjuvant to control Red Mites on Apples



Application

China is the largest world producer of apples with about 33 million tonnes yield per year. Red mites are pests causing severe damage to apples. To ensure high crop yields and better quality, growers treat apple orchard with insecticides, such as Abamectin.

Momentive's **Silwet 408** spray adjuvant can decrease the surface tension of pesticide spray treatments significantly more than other conventional spray adjuvants. This property typically leads to improved spray coverage, lower spray volumes, lower application costs. This along with its unique Superspreading Properties typically leads to improved spray coverage, lower spray volumes, lower application cost. To demonstrate the specific benefits of silicone spray adjuvants, the Silwet 408 spray adjuvant was trialled with standard 1.8% Abamectin EC spray treatments on apple trees.

Field Trials

Location	Shandong province, China				
Crop	Apple				
Insecticide	Abamectin 1.8% EC (Pesticide Rates : 375 g/Ha ; 270 g/Ha)				
Pest	Red Mites				
Adjuvant	Silwet 408 (Adjuvant Rates: 0.025%; 0.05%)				
Application	Tank-mix (Spray Rates: 3000 L/Ha; 1500 L/Ha; 900 L/Ha)				
Field Data (7 DAT)					
	Water	3000	900	1500	900
	Active	375	375	270	270
	Silwet* 408 Adjuvant	-	0.025%	0.025%	0.05%

Note: Test data. Actual results may vary.

Results

Trials demonstrated the following benefits from the Silwet 408 spray adjuvant addition to Abamectin sprayed on apple plants:

- ≥ 80% or better control with the Silwet 408 spray adjuvant addition (66.44% control with no adjuvant treatment)
- 50-70% less spray volumes, resulting to lower application costs
- 28% lower Abamectin pesticide dose rates

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