

Silwet* HS-604

Penetrant with Glyphosate for *Ipomea grandifolia* Weed Control



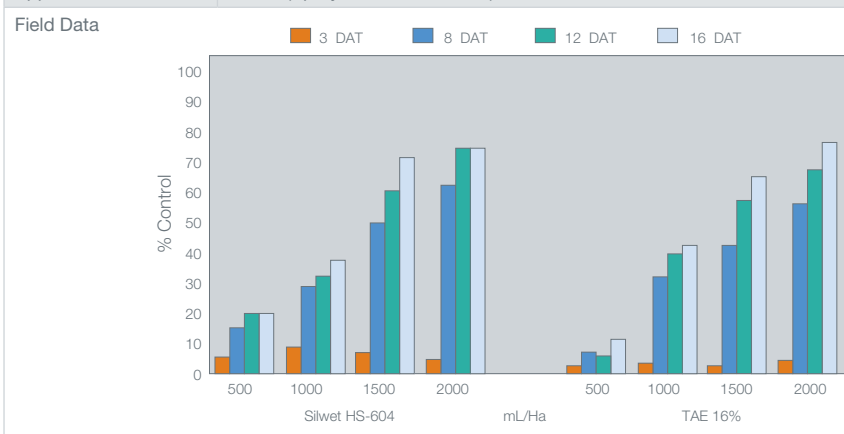
Application

The biological efficacy of glyphosate is very dependent on the surfactant or adjuvant in the spray solution. Many glyphosate formulations today are loaded with certain activator penetrant surfactants, while many others depend on the users to add the appropriate adjuvant surfactant. One of the most common penetrant adjuvants in glyphosates is tallow amine ethoxylate (TAE), which promotes the rapid uptake of the herbicides in addition to enhancing spray retention on a wide range of weeds.

Silwet HS-604 penetrant is a new pH stable silicone optimized to lower the total adjuvant in many in-can glyphosate and related herbicides formulations, while providing at least equivalent herbicide performance to control weeds. To demonstrate the specific benefits of this adjuvant, Silwet HS-604 penetrant was trialled with a standard glyphosate formulation to control *Ipomea grandifolia* (morning glory) weeds

Field Trials

Location	Brazil
Crop	Weed control
Pesticides	Glyphosate (+16%TAE) - Pesticide rates (ml/ha) : 500, 1,000, 1,500, 2,000
Pest	<i>Ipomea grandifolia</i> (Morning glory)
Adjuvants	TAE and Silwet HS-604 (Use rate: 45g/L TAE + 5g/L Silwet 604)
Application	In-can (Spray rate: 200 liters/ha)



Note: Test data. Actual results may vary.

Results

Field trials demonstrated the following benefits resulting from the addition of the Silwet HS-604 penetrant to a standard glyphosate formulation for controlling *Ipomea grandifolia* weeds:

- Equivalent weed control with faster initial burndown, when compared to 16% TAE formulation
- 70% lower chemical adjuvant use (5% adjuvant with Silwet HS-604 penetrant versus 16% TAE adjuvant)
- Lower eye irritation due to significantly lower in-can adjuvant use
- Much less foaming with Silwet HS-604 penetrant compared to the 16% TAE glyphosate formulation

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