

Optimising ViVUS Max[®] biological insecticide



Hygro-Stic[®]

Sticker/wetter for
enhancing

ViVUS MAX
Advanced *Helicoverpa* Biocontrol



Hygro-Stic[®]

A pine resin polymer sticker/spreader, improving deposition, retention, and coverage of spray droplets. Hygro-Stic enhances the durability of biological insecticides while minimising environmental degradation.

Environmental Factors

- > Spray droplet evaporation
- > Wash-off
- > Rapid drying
- > Temperature
- > UV breakdown
- > Wind degradation
- > Reduced window of activity
- > Low humidity / high delta-T
- > Limited uptake

Refer to the Agspec S.T.R.A.W.S. foliar application stewardship program, where the the major elements of Stress, Timing, Rate, Application, Water quality and Surfactant/adjuvant are explained in greater detail.

In an ever-changing environment achieving optimum results is a major challenge.

Application window

Spray parameters listed on the label are often difficult to achieve with weather fluctuations experienced in the paddock. Hygro-Stic is designed to minimise environmental factors impacting biological insecticides, improving the window of application. Remember, always read the label before use.

Coverage, Coverage, Coverage

"Thorough coverage is the key aspect in achieving consistently high mortality..." - ViVUS Max[®] Technical Manual

Hygro-Stic assists with coverage and redistribution of biological products. However, the driving force behind spray coverage is spray rig set-up and calibration. Ensure seasonal calibration of the spray rig.

Fine droplets risk evaporating before reaching the target. Hygro-stic reduces fines and acts as an anti-evaporant, increasing the amount of droplets reaching the target. Coarse droplets risk loss due to bounce, shatter and leaf run-off. Hygro-Stic's superior sticking ability reduces spray droplet bounce, shatter and run-off, thus retaining more active on the leaf surface.

This unique dual-action, mitigates concerns of both fine and coarse droplets demonstrating how Hygro-Stic is the ideal adjuvant for products where coverage is a high priority for best performance. i.e. Biological insecticides like ViVUS Max.



Mode of action

Hygro-Stic polymerises on the droplet surface when exposed to sunlight, forming a soft, flexible micro-film protecting biological insecticides. Hygro-Stic improves retention of spray droplets on the leaf even after heavy rain or irrigation, assisting the spread and coverage across the leaf surface. Hygro-Stic reduces UV breakdown and wind degradation, keeping biological insecticides moist and active.



**A unique
Sticker/Wetter
enhancing
biological
insecticides**



Using Hygro-Stic

Hygro-Stic is a true sticker, unlike the general oils and wetters commonly used. The following guidelines should be followed:

- 50 mL per 100 L of water
- Shake well before use
- Pre-mix in water before adding to the tank
- Always add last to the tank with good agitation
- Rinse tank and hoses after use



Cumulative incremental enhancements

Understanding biological products and how they are affected by environmental factors reveals performance enhancement develops in small increments. For example, if Hygro-Stic improves deposition by 3%, prevents UV damage by 2%, stops rain wash-off by 15%, extends activity by 7%, and lessens wind impact by 3%, even though the individual gains are small, the total benefit results in a combined 30% biological enhancement. Hence the importance of matching up biological products with the right adjuvant like Hygro-Stic, which assists with application, deposition, performance and environmental factors.



For more information on Hygro-Stic and how it can enhance biological insecticides: email info@agspec.net or contact your Agspec Business Manager.



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