
RainGard™ – a true adjuvant for many reasons and all seasons

Article by Key Industries Ltd.

RainGard™ is a versatile and quality adjuvant, this is proven by the science behind its stability and performance.

Unlike most adjuvants, RainGard™ actually treats the surface of the leaf, not just the water. Most products use coverage as the main criteria to measure performance, RainGard™ goes a step further. Actual pest, disease or weed control is the full statement to its performance.

RainGard™ requires UV light to set on the plant surface, usually at least 30 minutes exposure. After this a process called polymerisation occurs, which sets the top outer layer but sub layers never fully harden; it is a 'soft-film' adjuvant (unlike latex polymers). This allows RainGard™ to stretch to three times larger than its original deposition.

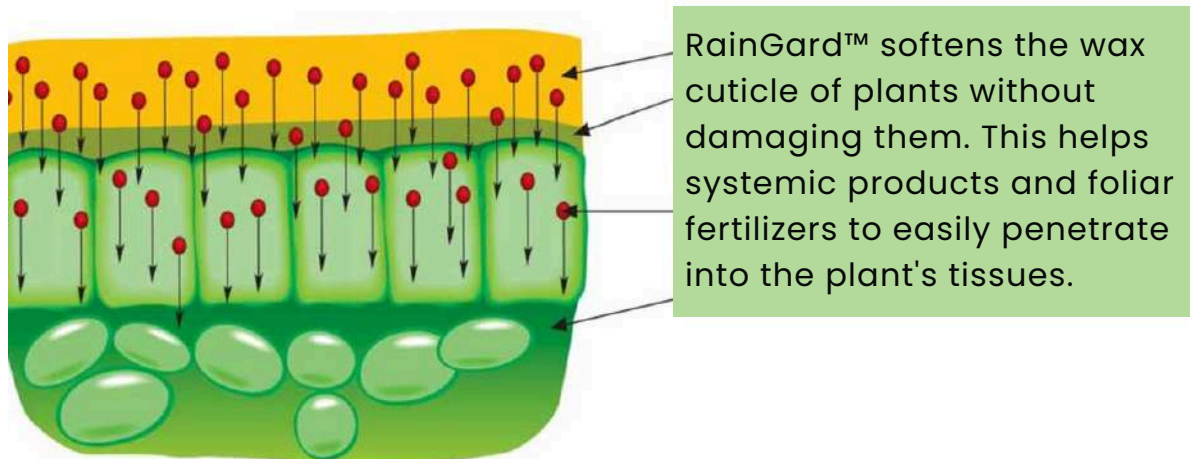
Every day a new layer of outer film is 'peeled off' by UV degradation. With protectants you are in essence exposing a new layer of chemical every day – RainGard™ melds and becomes part of the leaf cuticle (similar to the cuticular wax) resulting in product being held in the soft film centre.



The melding of RainGard™ with the leaf allows systemics to be softly translocated into the leaf allowing a safe and complete translocation. This is due to the concentration gradient differential and RainGard™'s soft film.

Why choose RainGard™ as your preferred adjuvant?.

- Activator-enables systemics to work in semi-liquid film
- UV protection - prevents degradation by sunlight
- Shields against heat
- Protects against hydrolysis - encapsulates pesticides and provides a natural external barrier
- Protects against evaporation - retain volatile toxicants like sulphur
- Protects biologicals - other adjuvants being petroleum derivatives can be harmful
- Prevents re-wetting - insoluble in water
- Spreading - aids pesticide spread and penetration
- Sticking - pine derivative natural adhesive
- Encapsulating - is a soft film barrier that encapsulates pesticides
- Natural carrier - very similar aromatase inhibitors exist in all plants
- Wetting - reduces surface tension



For more information call 09 4835526 or sales@keyindustries.co.nz