



Controlling Kelly's Citrus Thrips with Movento 100SC

The key to preventing damage is controlling KCT immediately post flowering on citrus. KCT adults lay eggs on flowers and upon hatching the resulting larvae (see photo above) feed on young fruitlets. Monitor the crop immediately post flower for the presence of KCT larvae. If thresholds are exceeded, apply Movento 100SC immediately and repeat if needed before calyx closure and pre-harvest. Movento has a slower knockdown effect than some older insecticides (e.g., OP's) so it is critical not to let the population numbers develop before applying Movento.

Controlling Armoured Scales with Movento 100SC

Movento applications should be targeted at the juvenile stages (crawler through to the 1st instar) of the scale lifecycle. The exact generational life cycle timing of armoured scale species is not completely understood in citrus in New Zealand but typically applications from late November through December should be ideal timing for scale control. The above photo shows larger adult California red scale and smaller white cap life stages. Photo courtesy of Plant & Food Research.

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Insist on Movento from Bayer.

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CITRUS

USER GUIDE

Movento 100SC

For effective control of sucking pests in citrus



MOVENTO® 100SC

2-way systemic control of Armoured Scales and Kelly's Citrus Thrips in Citrus

Movento 100SC is a powerful new IPM friendly insecticide for the control of sucking pests in citrus.

Kelly's Citrus Thrip is a serious pest in citrus crops causing characteristic circular stem end scarring (see photo 1) resulting in downgrading of fruit. Armoured scales cause economic damage through fruit infestation resulting in downgrading (see photo 2); being a phytosanitary issue for export markets and heavy infestations can debilitate trees.

Movento belongs to a new class of insecticides (the Ketoenols), with its unique mode of action and 2-way systemicity it provides excellent control of sucking pests.



KCT damage on lemons (photo 1 - courtesy of Keith Pyle)



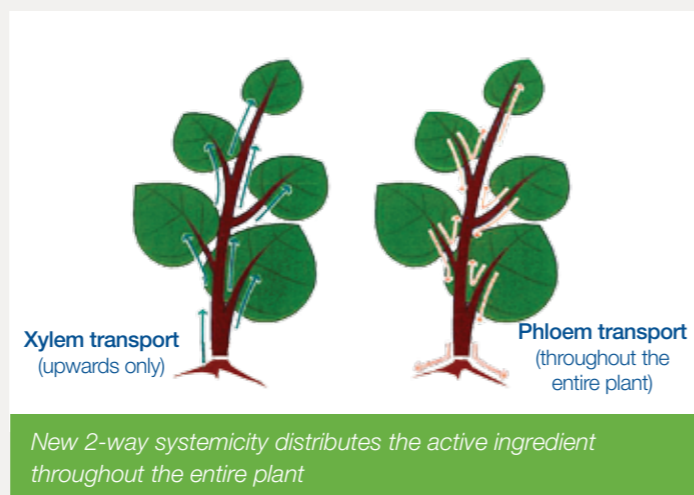
Scale infestation on Meyer Lemons (photo 2 - courtesy of Keith Pyle)

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Movento - 2-way Systemicity

Existing systemic insecticides move upwards only in the plant as they are transported in the xylem. Movento is unique in that it demonstrates 2-way systemicity as it moves both upwards in the xylem and downwards in the phloem within plants. This results in Movento being distributed throughout the entire plant ensuring control of pests in areas not directly accessible with sprays. To achieve optimal 2-way systemicity Movento must be up taken into leaves. Movento 100SC is an "all-in-one" formulation pre-adjuvanted formulation. It has an inbuilt adjuvant system that optimises uptake of Movento into the leaf. Additional adjuvants are not recommended to be used with Movento 100SC.



Movento - mode of action

Movento has a unique mode of action as a lipid biosynthesis inhibitor. It is primarily active through ingestion against the developmental (immature) stages of sucking pests. Movento has no knockdown of adults but has generational effects by reducing female fecundity and the number and viability of eggs produced. It is important that Movento applications are targeted at the early life – cycle stages, that being the nymphs of Kelly Citrus thrip and during the crawler release to 1st instar period of the scale life cycle. Applying Movento to established pest populations dominated by mature adults is not recommended.



Movento and the environment

Movento is highly compatible with IPM production systems. Movento is harmless or only slightly harmful to common beneficials (including parasitic wasps, predatory ladybirds, lacewings, hoverflies, earwigs and spiders). Movento is moderately harmful to predatory mites but has no long – term negative population effects. Movento has a high level of safety to bees.



MOVENTO 100SC: USE IN CITRUS AT A GLANCE

PEST	Kelly's Citrus Thrips and Armoured Scales.
RATE	96 ml/100 L of water.
WATER RATE	Use a water rate to achieve complete coverage without excessive run off. Optimal results will be achieved with thorough coverage.
SPRAY TIMING	Apply after flowering when the pest threshold is reached and repeat if needed before calyx closure and pre-harvest.
NUMBER OF APPLICATIONS	Use a maximum of 3 applications per season with at least 14 days between the first 2 applications and no more than 2 applications should be made within 90 days of harvest.
ADJUVANTS	None required.
WATER pH	Movento is stable between pH 3.5 - 7.5. Above 7.5 use pH buffers.
COMPATIBILITY	Movento is compatible with most fungicides. It is recommended to minimise tank mixing partners if possible when applying Movento.
RAINFASTNESS	2 hours under good drying conditions.
WEATHER CONDITIONS	Movento requires uptake into the leaves and translocation around the plant. Ideally apply Movento to actively growing plants. Do not apply Movento to plants under stress or in unseasonably cold or hot conditions.
WITHHOLDING PERIOD	NZ – 21 days. For export crops consult your exporter.
APPROVED HANDLER	Movento 100SC has no approved handler or tracking requirements.
STORAGE	Shake before use. Upon storage the Movento 100SC formulation may show phase separation (two distinct layers). This has no influence on application or efficacy and is easily reversed by shaking.