



Biogrow

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IPM SPRAY PROGRAMME - GENERAL

Drawn up by Wayne Gabb 082 552 4124

TIMING	PRODUCT	DOSAGE	SPRAY WINDOW	COMMENTS
Planting	BIOMEX	250 ml / 400 ℓ water	0	Combination of Trichoderma fungi. Will control Pythium, Fusarium. Apply as drench or root dip.
	KELPAK	1ℓ / 100 ℓ water	0	Root development and stimulation. Apply as a drench or root dip.
	BIONEEM VEGOL	500 ml / 100 ℓ water 200 ml / 100 ℓ water	0 0	Preventative insecticides against thrips, Leafminer, bollworm, mites.
	KOCIDE 2000	200 g / 100 ℓ water	3	Preventative fungicide.
WEEK 3	PHYTA	400 ml / 100 ℓ water minimum 2ℓ / Ha	0	Systemic preventative & remedial fungicide.
	DITHANE	100 g / 100 ℓ water		
	BIONEEM VEGOL BT FLO	500 ml / 100 ℓ water 200 ml / 100 ℓ water 250 ml / Ha	0 0 0	Preventative insecticides against thrips, Leafminer, bollworm, mites. Only apply when young bollworm or any other larvae is present.
WEEK 4	KUMULUS S	400 g / 100 ℓ	0	Preventative fungicide, Powdery Mildew and mites.
	BIOTRISSOL	500 ml / 100 ℓ water	0	Foliar Feed and root stimulation.
WEEK 5	QUADRIS - DITHANE	35 g / 100 ℓ water 100 G / 100 ℓ water	7	Systemic preventative & remedial fungicide.
	Abamectin VEGOL	25 ml / 100 ℓ water 200 ml / 100 ℓ water	3 0	Preventative insecticides against thrips, Leafminer, bollworm, mites.
	QUADRIS DITHANE	35 g / 100 ℓ water 100 g / 100 ℓ water	7	Systemic preventative & remedial fungicide.
WEEK 6	BIOTRISSOL	500 ml / 100 ℓ water	0	Foliar Feed and root stimulation.
	KOCIDE 2000	200 g / 100 ℓ water	3	Preventative fungicide.
WEEK 7	Tracer VEGOL	30 ml / 100 ℓ water 200 ml / 100 ℓ water	7 0	Preventative insecticides against thrips, Leafminer.
	WEEK 8	KUMULUS S	400g / 100 ℓ	0
WEEK 9	BIOTRISSOL	500 ml / 100 ℓ water	0	Foliar Feed and root stimulation.
	PHYTA	400 ml / 100 ℓ water	0	Systemic remedial and preventative: downy & powdery mildew, phytophthora, Pythium and blight.
	BIONEEM VEGOL BT FLO	500 ml / 100 ℓ water 200 ml / 100 ℓ water 250 ml / Ha	0 0 0	Preventative insecticides against thrips, Leafminer, bollworm, mites. Only apply if presence of larvae.
WEEK 10	KUMULUS S	400g / 100 ℓ	0	Preventative fungicide.
	BIOTRISSOL	500 ml / 100 ℓ water	0	Foliar Feed and root stimulation.
	ENDOSUFAN Or PYROL	100 g / 100 ℓ water 1 ℓ / 100 ℓ water	10 1	Only if necessary under high insect pressure – while harvesting check safety period.
WEEK 11	PHYTA	400 ml / 100 ℓ water	0	Systemic remedial and preventative: downy & powdery mildew, botrytis, phytophthora and Pythium.

Notes on SPRAY PROGRAMME FOR TOMATOES

Week 12 through to end of harvest.

➔ INSECT CONTROL:

Check safety period and spray according to monitoring before and during harvest.

Preventative	BIONEEM	500 ml / 100 l water	0 days] Low insect infestation
	VEGOL	200 ml / 100 l water	0 days	
Remedial	BT FLO	250 ml / Ha	0 days	
	PYROL	1 l / 100 l water	1 day	
	Endosulfan	100 g / 100 l water	10 days	
	Sanamectin	according to label	3 days	
	Tracer	according to label	7 days	

Bioneem, Vegol and **BT Flo** are soft on beneficial insects. **Pyrol** and **Sanamectin** are broad-spectrum contact insecticides with low residual actions. **Endosulfan** is a broad-spectrum contact insecticide with a longer residual action. It is thus harmful to beneficial insects.

Sanamectin / Abamectin can be used against thrips, Leafminer and mites. Do not apply more than 3 sprays per crop.

Tracer / Spinozad can be used against thrips and mites. Do not spray more than 3 sprays per season.

➔ FUNGAL CONTROL: (While harvesting)

Under dry conditions alternate

Kumulus S	400 g / 100 l water and
COPPER SOAP	500 ml / 100 l water.
Kocide 2000	200 g / 100 l water.

These are preventative products. Copper Soap will control anthracnose, Downey and powdery mildew and botrytis. Safety period 0 days. Kocide 2000 will do the same, safety period 3 days.

Under wet and humid conditions alternate

PHORTIFY	600 ml / 100 l water and
PHYTA	400 ml / 100 l water OR
Quadris (strobiline)	35 g / 100 l water

These are preventative and remedial systemic products that will control downy and powdery mildew, botrytis, phytophthora and pythium.

Botrytis Control: Apply strict hygiene practices during infectious periods apply Rovral at 200 ml / 100 l.

➔ FOLIAR FEEDING:

BIOTRISSOL	500 ml / 100 l water	Fortnightly or as required.
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➔ SLUG AND SNAIL CONTROL

FERRAMOL	5 g / m ²	Long lasting, rain fast, safe pellets.
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➔ **BIOMEX** Natural Fungi / Trichoderma strains. Stimulates roots and plants to grow with more vigour. Protects against soil borne diseases... Pythium, Fusarium, Rhizoctonia and Sclerotinia. Protects crops from Foliar Botrytis when spraying starts early in the season.

➔ **B5** Natural Bacteria / Bacillus strains. Controls the growth of certain harmful bacteria and fungi by competing with nutrients, and by directly colonising and attaching to fungal pathogens. Suppresses Eelworm egg development and produces enzymes for the breakdown of crop residues into usable formats by the plant.

➔ FERTILIZATION PROGRAMME:

At planting and preparation we suggest a soil analysis be done. Fertilization using the TALBORNE RANGE OF VITA FERTILIZERS can be done to rebuild the quality of soil. These products have the advantage of being available to the plant for up to 110 days in a slow release formulation.

➔ **TRACE ELEMENTS:** VITA Fertilizers and Biotrissol contain a range of trace elements, however according to history or leaf analysis additional trace element applications might be necessary.

Once you have gone through this programme I would like to discuss it with you.

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