

# **TRICHOPROTECTION® PROGRAMME** for Propagation and beyond of woody ornamentals to suppress root & stem and some leaf disease.

## **BARK & PEAT/BARK BASED SEED MIXES**

PRODUCT: Use **TRICHODRY NURSERY**

***When blending into the media is practical.***

APPLICATION RATE

@ 1kg per cubic metre supplied in either 1kg or 25kg packets

APPLICATION METHOD

Blended into the media before tray or pot filling

FREQUENCY

Prior to sowing or setting cuttings, follow up with post germination or root initiation applications of **TRICHOFLOW NURSERY** (use 250ml per hygiene tray per application) monthly thereafter.

Prior to potting off or up, follow up with applications of **TRICHOFLOW NURSERY** at monthly intervals at 25ml per litre of pot volume.

## **ALL GROWING ON MEDIA AND PUMICE OR OASIS ROOTING MEDIA**

PRODUCT: Use **TRICHOFLOW NURSERY**

***Either as an alternative to TRICHODRY when blending into the media is not practical or as a follow-up treatment to boost activity at any stage of production.***

APPLICATION RATE

@ 250g per 100 Litre supplied in 500g packets

APPLICATION METHOD

Drench or immersion in prepared solution.

FREQUENCY

Prior to sowing or setting cuttings, use 250ml per hygiene tray per application.

Follow-up at monthly intervals.

Post potting off or up, use 500ml per tray of GOL's or 25ml per litre of pot volume.

## **FOR ALL CROPS IN PROPAGATION & BEYOND**

PRODUCT: Use **TRICHOSPRAY NURSERY**

APPLICATION RATE

@ 5g/10Litre with Plant Soap PS1 @ 30-40mls/ 10 Litre

TrichoSpray is supplied in 100g packets with a 5g measure included.

APPLICATION METHOD

Foliar spray

FREQUENCY

7-14 day intervals after stock is taken out from under mist irrigation.

Carefully observe the mixing instructions on the pack to ensure maximum solubility.

Keep all **TRICHOPROTECTION** product in the fridge at 4°C. Reseal in-use packets before storing.

Organic liquid feeds may be mixed with all **TRICHOPROTECTION** products.

Use all prepared solutions the same day. Avoid spraying under bright conditions.

**TRICHOPROTECTION** Biological inoculant treatments are intended to assist you in preventing disease in your crop. They are NOT suitable for the eradication of existing established diseases.

It may be necessary to intervene with chemical fungicides to achieve disease free crops.

Check with us before adding any chemical fungicide to your mix or applying them to the foliage.

Several fungicide are compatible with a **TRICHOPROTECTION** programme consult us for specific details

**McHort** are your specialist **TRICHOPROTECTION** supplier.

Contact us on 021 782250 or 07 8230355 for product and information.

# **TRICHOPROTECTION® PROGRAMME**

## **for SEEDLINGS & CUTTINGS**

### **to suppresses root & stem roots & some leaf fungi.**

#### **IN BARK & PEAT/BARK SEED SOWING MIXES & CUTTING MIXES**

##### **PRODUCT**

Use **TRICHODRY NURSERY**

##### **APPLICATION RATE**

@ 1kg per cubic metre

##### **APPLICATION METHOD**

Blended into the media before tray filling

##### **FREQUENCY**

Prior to sowing or setting cuttings, follow up with post germination/ root initiation drench applications of **TRICHOFLOW NURSERY** at monthly intervals. ( use 250ml per hygiene tray per application approx.)

#### **FOLLOW -UP TREATMENT FOR SUSTAINED EFFECT**

##### **PRODUCT**

Use **TRICHOFLOW NURSERY**

##### **APPLICATION RATE**

500g per 200 Litre

##### **APPLICATION METHOD**

Drench ( use 250ml per hygiene tray per application approx.)

##### **FREQUENCY**

Prior to sowing seed or setting cuttings, follow-up at monthly intervals.

#### **FOR ALL CROPS IN PROPAGATION & BEYOND**

##### **PRODUCT**

Use **TRICHOSPRAY NURSERY**

##### **APPLICATION RATE**

5g/10Litre with Plant Soap PS1@ 30-40mls/ 10 Litre.

##### **APPLICATION METHOD**

Foliar spray. 5g / 10 ltr measuring spoon provided for knapsack application.

##### **FREQUENCY**

7-14 day intervals after stock is taken from under mist irrigation.

Carefully observe the mixing instructions on the pack to ensure maximum solubility.

Keep all **TRICHOPROTECTION** product in the fridge at 4°C

Reseal in-use packets before storing.

Organic liquid feeds ( NitrSol Organic) may be mixed with all **TRICHOPROTECTION** products.

Use all prepared solutions the same day.

Avoid spraying under bright conditions.

**TRICHOPROTECTION** Biological inoculant treatments are intended to assist you in preventing disease in your crop. They are NOT suitable for the eradication of existing established diseases.

It may be necessary to intervene with chemical fungicides to achieve disease free crops.

Check with us before adding any chemical fungicide to your mix or applying them to the foliage.

Several fungicide are compatible with a **TRICHOPROTECTION** programme consult us for specific details

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# TRICHOPROTECTION™ A LIVING BARRIER

## PROTECTING AGAINST PLANT PATHOGENS

TrichoProtection™ is a suite of products especially formulated for high value ornamental crops and is designed to suppress plant pathogens through niche exclusion either in the root zone or on the aerial parts of plants.

By introducing the optimum strain of *Trichoderma sp.*, a beneficial fungus, in the right place at the right time in the right concentration *Trichoderma* can rapidly establish and form a living barrier either around the plants root system or on stem, leaf and flowers.

The proliferation of this colonisation effectively pushes away and keeps harmful fungal Pathogens at bay and in so doing protecting the crop from attack.

The system is dependent on weight of numbers and a continuous and active *Trichoderma sp.* population. Follow up applications are desirable to maintain active and on going protection. As with most biological disease control methods they are most effective as protectants and hardly effective at all as curative treatments.

Different TrichoProtection™ formulations have been developed for a range of application methods and cropping situations. In general early application in crop production is both best and most economical.

It is important to integrate a TrichoProtection™ system with other chemical pest and disease strategies to avoid incompatibility. McHort have extensive knowledge of compatible chemicals and can make this vital information available on request.

McHort have the most comprehensive practical knowledge of what works and what doesn't in the use of this exciting alternative technology so please consult us.



### TRICHOSPRAY NURSERY

A wettable powder format of leaf, stem and flower colonising strains of *Trichoderma*. Applied as a foliar spray to the aerial parts of the crop to protect against a range of fungal pathogens. Repeat applications every 10-14 days are suggested. Apply in combination with McHort Plant Soap PS1 to enhance establishment.



### TRICHOFLOW NURSERY

A wettable powder formulation of soil dwelling *Trichoderma* strains for drench application to the root zone. Wet up propagation media before sowing or setting cuttings to establish a *Trichoderma* population prior to germination or root initiation. Apply in combination with Nitrosol Organic to enrich the media with a food source for the *Trichoderma*. Repeat applications every 14-28 days are suggested.



### TRICHODRY NURSERY

A fine granular powder formulation of soil dwelling *Trichoderma* strains for blending into growing media and potting mix. Blend into potting mix before potting off or up. Follow up drench applications of TrichoFlow Nursery with Nitrosol Organic are suggested to reinforce the *Trichoderma* population. TrichoDry Nursery is an economical choice for mass inoculation of larger volumes of growing media but will benefit from further supplementation.



### TRICHOPEL NURSERY

A heavy granular formulation for placement, in concentration, directly below or alongside the root system of more established plants when potting up or transplanting. The concentrated format of soil dwelling *Trichoderma* rapidly colonise the root zone affording sustained protection during the most vulnerable post potting/planting period.

## TRICHOSPRAY COMPATIBILITIES WITH CHEMICAL PESTICIDES

Product Name	Type	Active Group(s)	Compatibility	Comments
Acrobat MZ 690	F	morpholine, dithiocarbamate	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Alliette WG	F	fosetyl-aluminium	Compatible 24hr	Allow 24 hours after application before applying Trichospray
Amistar	F	azoxystrobin (strobilurin)	Tank compatible	May be tank mixed at label rates with Trichospray
Bravo	F	nitrile	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Captan	F	cyclic imide	Compatible 5 days	Allow 5 days after application before applying Trichospray
Champ, Kocide	F	copper hydroxide	Tank compatible	May be tank mixed at label rates with Trichospray
Euparen Multi	F	sulphamide	Compatible 5 days	Allow 5 days after application before applying Trichospray
Foli-R Fos 400	F	phosphorus acid	Tank compatible	May be tank mixed at label rates with Trichospray
Mancozeb (Dithane DF)	F	dithiocarbamate	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Neptune	F	pyrimidine	Compatible 5 days	Allow 5 days after application before applying Trichospray
Qunitec	F	phenoxyquinoline	Compatible 5 days	Allow 5 days after application before applying Trichospray
Ridomil Gold 2.5G	F	mefenoxam (phenylamide)	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Rovral Flo	F	iprodione (dicarboximide)	Compatible 5 days	Allow 5 days after application before applying Trichospray
Scala	F	pyrimethanil (anilopyrimidine)	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Shirlan	F	pyridinamine	Not compatible	Allow 5 days after application before applying Trichospray
Sulphur (Thiovit Jet)	F	sulphur	Tank compatible	May be tank mixed at label rates with Trichospray
Sumisclex	F	procymidone (dicarboximide)	Compatible 5 days	Allow 5 days after application before applying Trichospray
Systhane	F	myclobutanil (DMI - triazole)	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Switch	F	cyprodinil/phenylpyrrole (anilopyrimidine)	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Teldor	F	hydroxanilide	Tank compatible	May be tank mixed at label rates with Trichospray
Thiram	F	disulphide	Not compatible	Allow 12 - 15 days after application before applying Trichospray
Chess WG	I	pyridine azomethine	Compatible 5 days	Allow 5 days after application before applying Trichospray
Confidor	I	chloronicotinyl	Tank compatible	May be tank mixed at label rates with Trichospray
Eco oil	I	canola oil	Tank compatible	May be tank mixed at label rates with Trichospray
Endosulfan (Thiodan 35EC)	I	sulphurous acid, cyclic diol ester	Tank compatible	May be tank mixed at label rates with Trichospray
Lannate	I	methomyl (carbamate)	Tank compatible	May be tank mixed at label rates with Trichospray
Neem oil	I	azadiractin	Compatible 5 days	Allow 5 days after application before applying Trichospray
Success	I	spinosyn	Compatible 5 days	Allow 5 days after application before applying Trichospray