



# VERDEX 18 EW

**BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY**

**GERBUIKSAANWYSINGS INGESLUIT**  
 Lomonmer  
 Datum van vervaardiging

**VERWYS NA BESONDERHEDE**  
 SOOS OP HOUER / SAK GEDRUK

## VERDEX 18 EW

**INSECTICIDE**

Reg. No. L 9525, Act/Wet No. 36 of/van 1947

1:27/03/2019

**An oil-in-water insecticide for the control of insect pests in the crops as indicated.**

**'n Olie-in-water insekdoder vir die beheer van insek plae in die gewasse soos aangedui.**

IRAC INSECTICIDE GROUP CODE	6	IRAC INSEKDODERGROEPKODE
ACTIVE INGREDIENT / AKTIEWE BESTANDEEL		
Abamectin	18 g/ ℓ	Abamektien

Registration Holder / Registrasiehouer  
**Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.**  
 Reg. No. 2000/010819/07  
 P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika

5ℓ

UN Number: 2902

CAUTION / VERSIGTIG

## WARNINGS

Allow the following number of days between last treatment and harvest or use as food or feed:

Strawberries.....	3 days
Tomatoes.....	3 days
Citrus.....	3 days

IMPORTANT: The recommended withholding period between last application and harvest meets local residue requirements, but may not meet export requirements. If the treated crop is intended for export, consult the relevant exporting organisation regarding MRL requirements and withholding periods. When this product is applied according to the label recommendations indicated below, the local MRL will not be exceeded. Meridian Agrochemical Company (Pty) Ltd T/A Meridian Agritech cannot, however, be held liable for export crops exceeding the import tolerances of other countries.

- Handle with care.
- Do not graze treated areas.
- May cause skin and eye irritation.
- Poisonous if swallowed, inhaled or absorbed through the skin.
- Toxic to fish and wildlife.
- Toxic to bees coming in contact with the spray mist. Do not apply when bees are most active. Do not direct spray towards beehives.
- Store under lock and key in a cool place, away from food, feeds, seed and fertilizers.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry** – Do not enter the treated area within 2 days after treatment, unless wearing protective clothing.
- Do not use in situations where the target crop is inter-planted with other crops for which the use of **VERDEX 18 EW** is not registered.
- **In case of poisoning, call a doctor and make this label available to him.**
- **VERDEX 18 EW** has been tested on some of the most important commercial cultivars without any phytotoxic effects. More susceptible cultivars may be released in future which will need to be tested; for this apply **VERDEX 18 EW** to a limited test area before commercial applications are made.

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

## PRECAUTIONS

- Do not inhale fumes or spray mist.
- Wear suitable protective clothing while mixing or applying the product or before washing hands and face.
- Wash with soap and water after use and accidental skin contact. Also wash contaminated clothing.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face and changing clothes.
- Do not spray during periods of high bee activity.
- Avoid excessive drift – do not apply if the wind velocity exceeds 2 meters per second (7 km per hour).
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean the applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Triple rinse the empty container in the following manner: Invert the container over the spray tank or mixing tank and allow to drain for at least 30 seconds after flow has slowed down to a drip. Thereafter, rinse the empty container three times with a volume of water equal to a minimum of 30% of that of the container. Add the rinsate to the contents of the spray tank or container used for drench application before destroying the container. Do not use the empty container for any other purpose.
- Destroy the empty container by burning or perforation and flattening and dispose of it in a safe way. It is recommended to bury the container at least 50 cm deep in the ground and at least 100 m away from a borehole or water source. Do NOT contaminate rivers by disposal. Opening burning or dumping of the empty container and its contents are prohibited.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

## MODE OF ACTION

Abamectin is an insecticide, acaricide and nematicide with contact and stomach action. It has limited plant systemic activity, but exhibits translaminar movement. Abamectin acts by stimulating the release of  $\gamma$ -aminobutyric acid, an inhibitory neurotransmitter, thus activating the chloride channels.

## RESISTANCE WARNING

For resistance management, **VERDEX 18 EW** is a group code 6 insecticide. Any insect population may contain individuals naturally resistant to **VERDEX 18 EW** and other group code 6 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **VERDEX 18 EW** or any other group code 6 insecticide.

### To delay insecticide resistance:

- Avoid the exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with registered products from different insecticide group codes.
- Integrate other control methods (chemical, cultural, biological) into insect control programmes.
- The choice of products to be used during one growing season should take the resistance strategy into consideration.
- Applications should only be made based on scouting results for the pests.
- Do not apply more than 2 sprays per season on citrus.
- Do not apply more than 4 sprays per growing season on strawberries.
- Do not apply more than 5 sprays per growing season on tomatoes.

Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. If treatment is not effective following the use of **VERDEX 18 EW** as recommended, a resistant insect population may be present. If a resistant insect population is positively identified, consideration should be given to prompt use of an insecticide with a different mode of action for which there is no record of resistance to the relevant pest. For specific information on resistance management, contact the registration holder of this product.

## USE RESTRICTIONS

- If **VERDEX 18 EW** applications are allowed to dry on the crop, it will be tolerant of wash-off by rain or irrigation.
- Do not apply **VERDEX 18 EW** to any crop or situation not mentioned in this instruction leaflet.
- Only apply **VERDEX 18 EW** using an accurate and safe application technique.
- If **VERDEX 18 EW** is used in a tank mix with other recommended products, consideration should be given to the restrictions of those respective products.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Meridian Agrochemical Company (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.

## DIRECTIONS FOR USE

### Use only as directed.

- Use only clean water in the spray mixture.
- Prior to spraying, always ensure that the spray equipment is free of sediment, clean and correctly calibrated.
- **VERDEX 18 EW** is effective for the control of adult and immature stages of spider mites, thrips and American Leafminer.
- Ensure thorough and even spray coverage of the crop.
- **VERDEX 18 EW** is rapidly absorbed into the plant tissue.
- Over-spraying may result in less effective control. This is due to a loss of active material as a result of run-off from the leaf surfaces.
- **VERDEX 18 EW** may be used as a preventative or a corrective treatment in tomatoes for the control of red spider mites.
- **VERDEX 18 EW** has a minimal effect on natural enemies of mites, thrips and American Leafminer.
- **VERDEX 18 EW** is generally slow-acting. Therefore, although mites and leafminers become immobilised soon after exposure, between 3 and 5 days (depending on ambient temperatures) is required to achieve maximum mortality. During this period, feeding and plant damage is minimal.

## COMPATIBILITY

The compatibility of **VERDEX 18 EW** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.

**VERDEX 18 EW** must be applied with an approved light mineral spray oil on citrus,

**VERDEX 18 EW** does not require the addition of surfactants / adjuvants to the spray mixture.

When **VERDEX 18 EW** is used in conjunction with any other agricultural remedy, all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on those particular product labels, must be adhered to.

#### **MIXING INSTRUCTIONS**

- Measure out the required amount of **VERDEX 18 EW** and pre-mix with at least 10 litres of water.
- Half fill the spray tank with clean water.
- Add the pre-mixed **VERDEX 18 EW** to the spray tank.
- If any other product, such as a light mineral oil, is to be mixed with **VERDEX 18 EW**, the required volume of that product must be pre-mixed in a similar fashion.
- **VERDEX 18 EW** and oil must be premixed with each other before adding to the spray tank.
- Agitate the water in the spray tank and add the premixed product/s to the tank.
- Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before the application commences.
- **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Do not use brackish water. Application equipment must be thoroughly flushed out at the end of the spraying operation.
- **VERDEX 18 EW** may be mixed with waters of different pH values and hardness which is normally encountered in agricultural conditions.
- The optimal pH's are between 5.0 and 9.0.

#### **APPLICATION METHODS**

- Ensure that application equipment is clean, accurately calibrated and in good working order.
- Remove sediments, such as residues of pesticides, rust and dust from spray tanks before the use of **VERDEX 18 EW**.
- Avoid the use of hard or muddy water with a high colloidal content derived from soils with a high organic matter content.
- All sprayers must be correctly calibrated under field conditions prior to application.
- It is not necessary to spray to the point of run-off, but it is essential to ensure even and complete coverage of the target plants.
- Ensure even application for optimum results.

#### **GROUND APPLICATION**

- **VERDEX 18 EW** may be applied with conventional ground equipment such as tractor mounted booms, knapsack sprayers etc.
- Optimum spray deposits are obtained when ground equipment is calibrated to a spray volume of 500 to 3000 litres per hectare with suitable spray nozzles to ensure adequate coverage.
- If spray drift is a problem, do not exceed a spray pressure of 2 Bar.
- Use only the spray pressures recommended for the specific nozzles in order to avoid drift.

#### **Tomatoes**

- Use a fine spray at high pressure, and only apply to the point of incipient run-off.

#### **Strawberries**

- Apply as a high volume, high pressure cover spray.
- Thorough coverage of both the upper- and undersides of the leaves is required to control spider mites.
- Thorough coverage is essential.

#### **Citrus**

- As **VERDEX 18 EW** is most effective upon ingestion by the pest, maximum efficacy may only occur between three to four days after treatment.
- Thus, **VERDEX 18 EW** should not be used for the control of high numbers of citrus thrips where a knock-down treatment is required.
- Applications should be made at the first sign of thrips presence.

## RECOMMENDATIONS

CROP	DOSAGE RATE	REMARKS
<b>Citrus</b> Citrus thrips ( <i>Scirtothrips aurantii</i> )	20 mℓ <b>VERDEX 18 EW</b> + 300 mℓ Mineral oil per 100 ℓ water	Apply when the thrips are noticed, and repeat the application 3 – 5 weeks later as necessary. Apply as a light cover spray to the point of incipient run-off. Do not apply more than two consecutive applications or three sprays per growing season.  <b>VERDEX 18 EW</b> should be alternated with other registered thrips remedies in order to retard resistance development. Do not apply <b>VERDEX 18 EW</b> when more than 40% of the fruit are infested.  Applications of <b>VERDEX 18 EW</b> for the control of citrus thrips may also suppress Lowveld citrus mite and citrus red mite if present in the treated area.
<b>Strawberries</b> Red spider mite ( <i>Tetranychus urticae</i> )	1200 mℓ / ha <b>VERDEX 18 EW</b>	Apply <b>VERDEX 18 EW</b> in at least 500 litres of water per hectare as a high volume, high pressure, full cover spray at the first signs of infestation.  Initially, apply 2 sprays at a spray interval of 7 – 10 days. Thereafter, repeat as necessary. Do not exceed 4 applications per growing season.  Ensure thorough coverage of all plant surfaces. <b>Do not</b> exceed 4.8 ℓ <b>VERDEX 18 EW</b> per hectare per growing season.
<b>Tomatoes</b> Red Spider Mites ( <i>Tetranychus urticae</i> )	60 mℓ / 100 ℓ water (300 – 1200 mℓ / ha)	Apply <b>VERDEX 18 EW</b> at the first signs of infestation as a full cover, high volume, high pressure spray to the point of incipient run-off.
American leafminer ( <i>Liriomyza trifolii</i> )	60 mℓ / 100 ℓ water (300 – 1200 mℓ / ha)	Use up to 2000 ℓ spray mixture / ha. Increase the spray volume according to the size of the plants to ensure a full cover spray to the point of incipient run-off on the upper and lower side of the leaves. If less than 500 ℓ water / ha is applied on young plants, then not less than 300 mℓ <b>VERDEX 18 EW</b> must be applied in sufficient water to ensure full coverage of the plants.  <b>Do not</b> exceed more than 1200 mℓ of <b>VERDEX 18 EW</b> per hectare.  <b>Red spider mite:</b> Repeat if required. <b>American leaf miner:</b> Repeat at 7 day intervals in order to maintain control.  Do not exceed a maximum of 5 applications per season.

### DETERMINE RED SPIDER MITE POPULATION INDEX:

- Randomly select 48 plants per land.
- Count the number of female mites on three leaves per plant.
- Calculate the average number of mites on 48 plants per land.
- Determine the red spider mite population index per plant as follows.

Total number of female mites / 3 leaves / plant:	Spider mite Population Index:
0 adult females	0
1 to 10 adult females	1
11 to 30 adult females	2
31 and more:	3

## WAARSKUWINGS

Laat die volgende aantal dae toe tussen laaste toediening en oes, of vir gebruik as voer of beweiding:

Aarbeie.....	3 dae
Tamaties.....	3 dae
Sitrus.....	3 dae

**BELANGRIK:** Die aanbevole onthoudingsperiode tussen die laaste toediening en oes voldoen aan die plaaslike residuvereistes, maar dit mag nie aan die buitelandse uitvoervereistes voldoen nie. Indien die behandelde gewas vir die buiteland bestem is, moet die relevante invoer- of uitvoerinstansie genader word rakende die aanbevole onthoudingsperiode (MRL) vir die gebruik van die produkte. Indien hierdie produk toegedien word volgens die etiketvoorskrif soos hieronder aangedui, sal die plaaslike MRL nie oorskry word nie. Meridian Agrochemical Company (Edms.) Bpk. h/a Meridian Agritech kan egter nie aanspreeklik gehou word vir uitvoergewasse wat die invoervereistes van ander lande oorskry nie.

- Hanteer versigtig.
- Moenie behandelde gebiede bewei nie.
- Mag vel- en oogirritasie veroorsaak.
- Skadelik indien produk ingesluk, ingeasem of deur vel geabsorbeer word.
- Giftig vir visse en wildlewe.
- Giftig vir bye wat in kontak met die spuitnewel kom. Moenie toedien wanneer bye aktief is nie. Moenie oor byekorwe spuit nie.
- Bêre agter slot-en-grendel in 'n koel, droë plek, weg van voedsel, voer, saad en kunsmis.
- Hou buite bereik van kinders, ongeligte persone en diere.
- **Herbetreding:** Moenie behandelde gebied binne 2 dae betree alvorens spuitneerslag droog is nie, tensy beskermende oorklere gedra word.
- Moenie in situasie gebruik waar die teikengewas tussen ander gewasse geplant is en **VERDEX 18 EW** nie op laasgenoemde geregistreer is nie.
- **In geval van vergiftiging, kontak 'n dokter en maak hierdie etiket aan hom/haar bekend.**
- **VERDEX 18 EW** is sonder enige fitotoksiseitskade op die mees belangrikste kommersiële kultivars getoets. Meer sensitiewe kultivars mag in die toekoms vrygestel word wat eers getoets moet word; hiervoor moet **VERDEX 18 EW** eers op 'n klein toetsoppervlakte aangewend word, alvorens groot kommersiële bespuitings gemaak word.

**Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die plaë teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van die toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom, of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.**

## VOORSORGMATREËLS

- Moenie die dampe of spuitnewel inasem nie.
- Dra geskikte beskermende klere terwyl vermenging en aanwendig van die produk geskied of voordat hande en gesig gewas word.
- Was met seep en water na gebruik, of in die geval van toevallige velkontak. Was ook besoedelde klere.
- Moenie eet, drink of rook tydens vermenging of toediening van die produk of voordat hande en gesig gewas is nie.
- Moenie toedien in tye wanneer bye op hul bedrywigste is nie.
- Vermoed oormatige wegdrywing – moenie toedien wanneer windspoed 2 meter per sekonde (7 km/h) oorskry nie.
- Vermoed wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie onder behandeling is nie.
- Maak toedieningsapparaat voor en na gebruik skoon. Uitspoelwater moet nie gewasse, weidings, riviere, damme en boorgate besoedel nie.
- Spoel houer drie keer uit soos volg: Keer die leë houer om oor die spuitenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houer daarna **drie keer** uit met 'n volume water gelykstaande aan 'n minimum van 30% van die inhoud van die houer. Gooi die spoelwater by die inhoud van die spuitenk voordat die houer op die voorgeskrywe manier vernietig word. Moenie die leë houer vir enige ander doel gebruik nie.
- Vernietig leë houers deur dit verbrand, of gate daarin te maak en dit plat te maak voordat dit veilig mee weggedoen word. Dit word aanbeveel om houers ten minste 50 cm diep in die grond en ten minste 100 m weg

van 'n boorgat of waterbron te begrawe. MOENIE riviere tydens wegdoening besoedel nie. Die weggooi en oopverbranding van leë houers en die inhoud daarvan word streng verbied.

- **Moenie** leë houer vir enige ander doel hergebruik nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

## METODE VAN WERKING

Abamektien is 'n insek-, myt- en aalwurmdoder met kontak- en maagaksie. Dit het minimum sistemiese plantwerking, maar toon translaminêre beweging. Abamektien stimuleer die vrylating van  $\gamma$ -aminobottersuur, 'n neuro-oordrag inhibeerder, met gevolglike aktivering van die chloriedkanale.

## WEERSTANDBESTUUR

Vir weerstandsbestuur is **VERDEX 18 EW** 'n groepkode 6 insekdoder. Enige insekpopulasie mag individue bevat wat 'n natuurlike weerstand teen **VERDEX 18 EW** of enige ander groepkode 6 insekdoder het. Die weerstandbiedende individue kan uiteindelik die insekpopulasie oorheers as hierdie insekdoder herhaaldelik aangewend word. Hierdie weerstandbiedende insekte sal waarskynlik nie deur **VERDEX 18 EW** of enige ander groepkode 6 insekdoder beheer word nie.

### Om weerstand teen swamdoders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van insekdoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van, produkte in verskillende insekdodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekdoderprogramme.
- Die produkkeuses wat gedurende 'n groeiseisoen gebruik gaan word, moet die weerstandstrategie in ag neem.
- Toedienings moet slegs gemaak word wat op die verkenningsresultate van die plaë gebaseer is.
- Moenie meer as 2 bespuitings per seisoen op sitrus toedien nie.
- Moenie meer as 4 bespuitings per groeiseisoen op aarbeie toedien nie.
- Moenie meer as 5 bespuitings per groeiseisoen op tamaties toedien nie.

Aangesien die voorkoms van weerstandbiedendheid moeilik is om te bepaal, is dit uiters belangrik om die behandelde gewasse noukeurig te ondersoek. Indien die behandeling nie effektief was met die gebruik van **VERDEX 18 EW** soos voorgeskryf nie, mag daar 'n weerstandbiedende-populasie teenwoordig wees. Indien so 'n weerstandbiedende-populasie positief geïdentifiseer word, moet daar onmiddellik 'n insekdoderbespuiting wat 'n ander werkswyse het, waar daar geen bewys van weerstand teen die siekte voorkom, gedoen word. Vir spesifieke inligting oor weerstandsbestuur kan die registrasiehouer van hierdie produk gekontak word.

## GEBRUIKSBEPERKINGS

- Indien **VERDEX 18 EW** bespuitings toegelaat word om op die gewas droog te word, sal dit die afwas deur reën of besproeiing weerstaan.
- Moenie **VERDEX 18 EW** op enige gewas of situasie aanwend wat nie in die voorskrifetiket verskyn nie.
- Dien **VERDEX 18 EW** slegs toe deur van akkurate en veilige toedieningstegnieke gebruik te maak.
- Indien **VERDEX 18 EW** in 'n tenkmengsel met ander aanbevole produkte gebruik word, moet oorweging aan die beperkings van daardie betrokke produkte geskenk word.
- Moenie hierdie produk in kombinasie of tenkmengsel met enige ander produk of landboumiddel gebruik wat nie spesifiek op hierdie etiket gelys is nie. Meridian Agrochemical Company (Edms.) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe gevolge indien die instruksies op die etiket nie nagekom word nie, tensy 'n Meridian verteenwoordiger vooraf geraadpleeg is.

## GEBRUIKSAANWYSINGS

### Gebruik slegs soos aangedui.

- Gebruik slegs skoon water in die spuitmengsel.
- Verseker voor toediening dat die spuittoerusting geen sediment bevat nie, skoon is en korrek gekalibreer is.
- **VERDEX 18 EW** is effektief in die beheer van volwasse en onvolwasse stadiums van rooispinmyt, blaaspootjie en Amerikaanse blaarmyner.
- Verseker deeglike en egalige bedekking van die gewas.
- **VERDEX 18 EW** word baie vining in die plantweefsel geabsorbeer.
- Oorbespuiting mag tot verswakke beheer lei. Dit is a.g.v. die verlies aan aktiewe bestanddeel weens die afloop vanaf die blaaroppervlaktes.
- **VERDEX 18 EW** mag as 'n voorkomende of 'n korrektiewe behandeling teen die beheer van rooispinmyt in tamaties gebruik word.
- **VERDEX 18 EW** het 'n minimale effek op natuurlike vyande van myte, blaaspootjies en Amerikaanse blaarmyner.

- **VERDEX 18 EW** is normaalweg stadig-werkend. Daarom, alhoewel myte en blaarmyners kort na blootstelling geïmmobiliseer word, tussen 3 en 5 dae (afhangend van omgewingstemperatuur) nodig is om maksimum mortaliteit te verseker. Gedurende hierdie periode is voeding en plantskade minimaal.

## VERENIGBAARHEID

Die verenigbaarheid van **VERDEX 18 EW** met ander produkte sal van die formulering van die onderskeie produkte afhang, asook van die kwaliteit van die spuitwater wat gebruik word. Soos formulering van tyd tot tyd verander, is dit raadsaam om eers 'n fisiese verenigbaarheidstoets te doen, voordat tenkmengsels gemaak word.

**VERDEX 18 EW** moet saam met 'n goedgekeurde ligte minerale olie op sitrus toegedien word.

**VERDEX 18 EW** vereis nie die byvoeging van benatters/byvoegmiddels by die spuitmengsel nie.

Indien **VERDEX 18 EW** met ander produkte gemeng word, moet alle **WAARSKUWINGS, VOORSORGMATREËLS** en **GEBRUIKSAANWYSINGS** soos dit op daardie betrokke etiket verskyn, gevolg word.

## MENGINSTRUKSIES

- Meet die verlangde hoeveelheid **VERDEX 18 EW** uit en meng dit vooraf met ten minste 10 liter water.
- Maak die spuitenk halfvol met skoon water.
- Voeg hierdie **VERDEX 18 EW**- voorafmengsel by die spuitwater.
- Indien enige ander produk, soos ligte minerale olie, met die **VERDEX 18 EW** gemeng word, moet die verlangde hoeveelheid van daardie produk net so vooraf gemeng word.
- **VERDEX 18 EW** en olie moet eers vooraf met mekaar gemeng word voordat dit by die spuitmengsel gevoeg word.
- Roer die spuitwater in die tenk en voeg dan die voorafmengsel van produkte in die tenk.
- Vul die spuitenk met water tot by die verlangde volume en handhaaf roering om deeglike vermenging van die spuitmengsel voor bespuiting te verseker.
- **Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om in die spuitenk oornag te staan nie.** Moenie brakwater gebruik nie. Spuittoerusting moet deeglik aan die einde van die spuitproses uitgespoel word.
- **VERDEX 18 EW** mag met water gemeng word waarvan die pH-waardes en hardheid wissel, wat normaalweg in landboustoestande ondervind word.
- Die optimale pH is tussen 5.0 en 9.0.

## TOEDIENINGSMETODES

- Verseker dat die spuittoerusting skoon, akkuraat gekalibreer en in goeie werkende toestand is.
- Verwyder enige neerslag soos plaagdoderresidue, roes en stof vanuit die spuitenk voordat **VERDEX 18 EW** gebruik word.
- Vermyn die gebruik van harde, modderige water met 'n hoë kolloïdale-inhoud afkomstig van gronde met 'n hoë organiese materiaalinhoud.
- Alle spuittoerusting moet korrek gekalibreer wees onder veldtoestande voordat toediening plaasvind.
- Dit is nie nodig om tot by punt van afloop te spuit nie, maar dit is noodsaaklik om te verseker dat egalige en volledige bedekking van die teikenplante verkry word.
- Verseker egalige toediening vir optimale resultate.

## GRONDTOEDIENING

- **VERDEX 18 EW** mag met konvensionele grondtoerusting soos trekker gemonteerde balkspuite, rugsakspuite ens. toegedien word.
- Optimale spuitneerslae word verkry wanneer grondtoerusting gekalibreer is met 'n spuitvolume van 50 tot 3000 liter per hektaar, met geskikte spuitpunte om voldoende bedekking te verseker.
- Indien spuitstof-wegdrywing 'n probleem is, moenie 'n spuitdruk van 2 Bar oorskry nie.
- Gebruik slegs die spuitdrukke vir die spesifieke spuitpunte soos voorgeskryf om wegdrywing te verhoed.

### Tamaties

- Gebruik 'n fyn spuit teen hoë druk en dien slegs toe tot by punt van begin van afloop.

### Aarbeie

- Dien as 'n hoë volume, hoë druk dekbespuiting toe.
- Deeglike bedekking van beide bo- en onderkantste blare is noodsaaklik om roospinmyte te beheer.
- Deeglike bedekking is noodsaaklik.



## Sitrus

- Deurdat **VERDEX 18 EW** die mees-effektiefste is met inname deur peste, sal maksimum effektiwiteit eers tussen drie en vier dae na behandeling plaasvind.
- Gevolglik moet **VERDEX 18 EW** nie gebruik word vir die beheer van groot getalle sitrusblaaspootjie waar 'n uitklopbehandeling vereis word nie.
- Toedienings moet met die eerste tekens van blaaspootjie teenwoordigheid gemaak word.

## AANBEVELINGS

GEWAS	DOSIS	OPMERKINGS
<b>Sitrus</b> Sitrusblaaspootjie ( <i>Scirtothrips aurantii</i> )	20 ml <b>VERDEX 18 EW</b> + 300 ml Minerale olie per 100 l water	Dien toe met waarneming van blaaspootjie en herhaal toediening 3-5 weke later indien nodig. Dien toe as 'n ligte dekbespuiting tot voor punt van afloop. Moenie meer as twee opeenvolgende of drie bespuitings per groeiseisoen toedien nie.  <b>VERDEX 18 EW</b> moet met ander geregistreerde blaaspootjie middels afgewissel word om weerstandigheid te vertraag. Moenie <b>VERDEX 18 EW</b> toedien wanneer meer as 40% van die vrugte besmet is nie.  Toedienings van <b>VERDEX 18 EW</b> vir die beheer van sitrusblaaspootjie mag ook laeveldsitrusmyt en rooispinmyt onderdruk indien in die behandelde gebied teenwoordig is.
<b>Aarbeie</b> Rooispinmyt ( <i>Tetranychus urticae</i> )	1200 ml / ha <b>VERDEX 18 EW</b>	Dien <b>VERDEX 18 EW</b> toe in ten minste 500 liter water per hektaar as 'n hoë volume, voldekbepuiting met die eerste tekens van infestasië.  Dien aanvanklik 2 bespuitings met 7-10 dae intervalle toe. Daarna, herhaal indien nodig. Moenie 4 toedienings per groeiseisoen oorskry nie.  Verseker deeglike bedekking van al die plantoppervlaktes.  <b>Moenie 4.8 l VERDEX 18 EW</b> per hektaar per groeiseisoen oorskry nie.
<b>Tamaties</b> Rooispinmyt ( <i>Tetranychus urticae</i> )	60 ml / 100 l water (300 – 1200 ml / ha)	Dien <b>VERDEX 18 EW</b> met die eerste tekens van infestasië as 'n voldek-, hoë volume-, hoë druk-bespuiting tot by die punt net voor afloop toe.

<p>Amerikaanse blaarmyner (<i>Liriomyza trifolii</i>)</p>	<p>60 ml / 100 l water (300 – 1200 ml / ha)</p>	<p>Gebruik tot en met 2000 l spuitmengsel / ha. Verhoog die spuitvolume volgens die plantgrootte om 'n voldekbepuiting tot net voor afloop op die boonste en onderste gedeeltes van die blare te verseker. Indien minder as 500 l water/ha op jong plante toegedien word, dan moet nie minder as 300 ml <b>VERDEX 18 EW</b> in genoegsame water toegedien word om volbedekking van die plante te verseker.</p> <p><b>Moenie</b> meer as 1200 ml <b>VERDEX 18 EW</b> per hektaar oorskry nie.</p> <p><b>Rooispinmyt:</b> Herhaal indien nodig. <b>Amerikaanse blaarmyner:</b> Herhaal met 7-dae intervalle om beheer te handhaaf.</p> <p>Moenie 'n maksimum van 5 toedienings per seisoen oorskry nie.</p>
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**BEPALING VAN ROOISPINMYTBEVOLKINGSINDEKS:**

- Kies ewekansig 48 plante per land.
- Tel die aantal wyfiemyte op drie blare per plant.
- Bereken die gemiddelde aantal myte op 48 plante per land.
- Bepaal die roospinmytbevolkingsindeks per plant as volg:

Totale aantal wyfiemyte / 3 blare / plant:	Rooispinmytbevolkingsindeks:
0 volwasse wyfies	0
1 tot 10 volwasse wyfies	1
11 tot 30 volwasse wyfies	2
31 en meer:	3