

ONLY FOR SALE AND USE BY REGISTERED SEED SUPPLY COMPANIES DOING BULK SEED TREATMENT.

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Seed Treatment



SORENTO 600 FS

Reg. No. L 9110 Act/Wet No. 36 of/van 1947
N-AR 1890

1: 15/2/2013 – Sept2018

*A systemic insecticide seed treatment for the control of pests as indicated.
'n Sistemiese insekdoder saadbehandeling vir die beheer van plae soos aangedui.*

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL
thiamethoxam (neonicotinoid) **600 g/l** tiametoksam (neonikotenoïed)

IRAC INSECTICIDE GROUP CODE **4A** IRAC INSEKDODER GROEPKODE



villa

Registration holder / Registrasiehouer:
Villa Crop Protection (Pty) Ltd.
Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07
PO Box / Posbus 10413, Aston Manor, 1630
Tel: 011 396 2233
Website / Webblad: www.villacrop.co.za

UN Number: 3082

Willow Set & Print 011 394-4486



**CAUTION
VERSIGTIG**



GEBRUIKSAANWYSLINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

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ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

thiamethoxam (neonicotinoid) / tiametoksam (neonikotenoïed)..... 600 g/l

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413, ASTON MANOR, 1630

Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS****Withholding period:**

Minimum time between the last application and feeding:	
Grazing of crops planted with treated seed	56 days

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, VILLA CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with care.
- Harmful when absorbed through the skin or swallowed or inhaled.
- Protect against light.
- **Treated seed may be poisonous to seed-eating birds. Treated seed must be planted properly and covered with soil totally. No seed should be left where it can be eaten by birds.**
- Use **SORENTO 600 FS** only for the treatment of high quality certified seed.
- Do not use **SORENTO 600 FS** on sweetcorn or popcorn.
- Do not treat seed of inbred parent plants of hybrids, experimental hybrids or cultivars or newly released hybrids or cultivars with **SORENTO 600 FS**. First refer to the manufacturer or seed supplier.
- The planter should be calibrated prior to planting with treated seed, to ensure that the required plant population is obtained. Calibration must also be confirmed at regular intervals thereafter.
- Emergence of seedlings may be adversely affected should planting depth exceeds 50 mm. Efficacy may also be adversely affected by planting depth.
- Only treat seed that is to be used for planting purposes. **Never use treated seed for human consumption or animal feed.**
- Do not use treated seed carried over from the previous season. Only treat seed that is to be used for planting purposes.
- Store in a cool place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action 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 pests against the remedy concerned, as well as 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 of 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

- Wear a face shield, rubber gloves and boots while handling the product.
- Wash with soap and water immediately after use and accidental skin contact.
- Wash contaminated clothing after use.

- Do not eat, drink or smoke whilst mixing or applying, or before washing hands and face and change of clothing.
- If poisoning is suspected, immediately consult a physician.
- After treatment of seed, clean applicator and all utensils. Dispose rinse water where it will not contaminate crops, grazing or water sources.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feedstuffs, drinking water, irrigation water and eating utensils.
- Treated seed must be handled carefully. Label the bags which contain treated seed clearly "**HARMFUL – treated with insecticide.**" Never re-use the bags for any other purpose.

RESISTANCE WARNING

SORENTO 600 FS is a group code 4A insecticide. Any insect population may contain individuals naturally resistant to **SORENTO 600 FS** and other group code 4A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **SORENTO 600 FS** or any other group code 4A insecticide.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate with products from different insecticide group codes,
- integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS

SORENTO 600 FS is a systemic residual insecticide, formulated as a seed dressing, which is absorbed by the germinating seed / seedling. Effective control of target pests therefore depends on the following:

- Sufficient soil moisture, to ensure uptake of the active ingredient during germination to ensure efficacy.
- Unfavourable environmental conditions during germination (e.g. cold and wet conditions, flooding and drought) may result in delayed germination.
- Flood irrigation: Fields must not be flooded after planting before all seedlings have emerged and the crop is established. This would normally take around 2 weeks after planting.
- Damage to seedlings of treated crop seed may still occur under high insect population pressure. Mild infestations of Russian wheat aphid may still occur despite treatment with **SORENTO 600 FS**.

EXPECTED PERIOD OF CONTROL

Pest	Expected period of control after planting
Maize <u>Soil insects:</u> Black maize beetle (adults); False wireworm; Ground weevil (adults); Spotted maize beetle (larvae)	42 days
<u>Foliar feeding insects:</u> Maize leafhopper**	
Wheat Russian wheat aphid	

Period of control - important notes:

- Despite using this product, some damage / streak virus symptoms may still occur on maize seedlings. It is recommended to plant treated seed at a depth of 30 to 50 millimetres.
- Period of control depends on various factors such as temperature, soil moisture, etc. which may prolong or shorten above mentioned period of control.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- **SORENTO 600 FS** can be used with seed previously treated with a fungicide (e.g. **Captab**). In such cases, first treat the seed with the fungicide, and then with **SORENTO 600 FS**. Refer to the “**DIRECTIONS FOR USE**” and “**USE RESTRICTIONS**” as listed on the label of the fungicide.
- Do not use **SORENTO 600 FS** together with **Teprosyn Mo/P** as this may adversely affect proper coverage of **SORENTO 600 FS**.

Mixing instructions:

- Mix the required volume of **SORENTO 600 FS** with a small volume of water to form a smooth cream before adding the balance of the water. Mix thoroughly before adding to the seed.
- Large quantities of seed are conveniently treated in automatic seed-dressing machines. **SORENTO 600 FS** is to be used as a slurry seed-dressing. The machines should be checked at intervals, to ensure that the correct quantity of **SORENTO 600 FS** is used.
- Treat enough seed for immediate use immediately before planting. Do not allow treated seed to stand over for prolonged period of time.

APPLICATION RATES

IMPORTANT

Refer to “**USE RESTRICTIONS**” above.

1. MAIZE

<i>Pest</i>	<i>Dosage</i>
Spotted maize beetle (<i>Astylus atromaculatus</i>) larvae, Black maize beetle (<i>Heteronychus arator</i>), False wire worms (<i>Tenebrionidae spp.</i>), Ground weevils (<i>Protostrophus spp.</i>)	0.5 mg active ingredient per kernel. Use 2 parts water to one part SORENTO 600 FS
Maize leafhopper (<i>Cicadulina mbila</i>) Vector of streak disease	0.85 mg active ingredient per kernel. The volume of water to be added must be such that a final mixture volume of 1.5 litres are used per 100 kg seed.
<u>DETERMINATION OF DOSAGE RATES FOR TREATMENT OF MAIZE SEED:</u>	
<u>Instructions for maize seed packed as number of kernels per bag:</u>	
<u>Pack size in number of kernels / bag</u>	<u>Dosage: ml SORENTO 600 FS / bag</u>
60 000	50
70 000	58
80 000	67
90 000	75
<u>Instructions for maize seed packed per weight with the Thousand Grain Weight (TGW) known for each batch:</u>	
The following 2 formulas must be applied to determine the amount of SORENTO 600 FS to treat 100 kg seed.	
<ul style="list-style-type: none"> • $(1000 \div \text{TGW}) \times 100\,000 = n \text{ kernels} / 100\text{kg}$ • $\frac{(n \times 0.5)}{1000} \div 0.6 = \text{ml product} / 100 \text{ kg seed}$ 	
<u>Instructions for maize seed packed per weight with the TGW unknown for each batch:</u>	
Maize leafhopper	595 ml SORENTO 600 FS plus 905 ml water / 100 kg seed
Other maize soil insects	292 ml SORENTO 600 FS plus 1200 ml water / 100 kg seed

2. WHEAT

<i>Pest</i>	<i>Dosage</i>
Russian wheat aphid (<i>Diuraphis noxia</i>)	200 ml / 1300 ml water / 100 kg seed. Refer to “ USE RESTRICTIONS ”.