

Nemapom

Biological Control of Codling Moth

Steinernema feltiae for biological control of overwintering larvae of codling moth (*Cydia pomonella*) and red-belted clearwing (*Synanthrenon myopaeformis*).

Produkt handling before application

Apply **nemapom**[®] nematodes soon after reception. The product may be stored for a limited period of time (see expiry date on package) at 4-10 °C. Do not freeze and do not expose to temperatures above 30 °C. Do not open pack until ready to use.

Application Conditions

Weather:

Treat when harvest of the parcel is terminated and weather conditions are favourable. Most important is high humidity during and after application. Ideally spray on wet trunks. Spray toward evening so that trunks stay wet during the night. Rain, drizzle, fog or dew after application increase efficacy. Giving Water by fan orchard sprayer before or after treatment normally gives not enough humidity. Best conditions are rainy weather.

Temperatures must be 8 °C or higher for several hours after treatment since the nematodes need a certain time to find the codling moth larvae. Drop of temperatures for a few hours does not impair the treatment, as long as the trees stay wet. Higher temperatures are always advantageous, but avoid direct sun and temperatures higher than 30 °C during application, best time will be late afternoon or early evening.

Dosage

Young plantations (M9)<5 years:

Apply 750 million nematodes in at least 1,000 litres of water per meter trunk and hectar. It is sufficient to treat only the lower part (1 m). Also spray very carefully around and below the grafting thoroughly. If possible spray each row twice from opposite directions. If there are bamboo bars, make sure they are well covered.



optimal wett applied, including grafting point





For small trees herbicide equipment will be sufficient. If you take fan sprayers, turn of top nozzles.

Bigger and older trees:

Apply 1,5 million nematodes in at least 1,500 ltr minimum of water per hectare. Treat full crown and takes care, that the older branches and arms becomes treated very well at their basic. If there are bamboo bars, make sure they are well covered.



Using airblust sprayer works as well.

Technical equipment:

Use nozzles with at least 0.8 mm diameter. Pressure should not exceed 5 bar.

For sprayers, make sure, that:

- it is thoroughly cleaned esp. after insecticide use
- all sieves and filters are removed
- add $\frac{3}{4}$ of the required amount of water to the tank
- dilute packs in a bucket with 5 litres of water
- with the agitator running add content of bucket to the tank
- add the remainder of water and begin application
- mix the solution thoroughly and proceed mixing during spraying to avoid sedimentation of the nematodes

Effect

Autumn treatment with **nemapom**[®] nematodes reduces overwintering larvae and pest occurrence in the following spring. Larvae die within 48 h after application.

Compatibility

nemapom[®] is compatible with most chemical fertilizers and pesticides. Only a few insecticides have a negative impact. In these cases apply the nematodes 3 days earlier or 2 weeks later. A compatibility list can be downloaded at <http://www.e-nema.de/service-en/compatibility-of-pesticides/>.