

Applying Nemasys J and Nemasys G

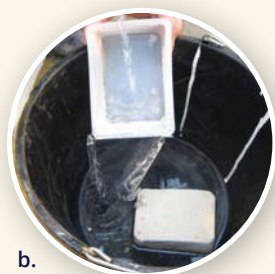
The biggest challenge for nematode application into turf is for the nematodes to penetrate the thatch layer in order to reach the soil where the Chafer Grubs and Leatherjackets are found. The larvae of both pests feed on grass roots at the bottom of the thatch layer. Nematodes are contact acting and move in water, hence the recommended dose and application volume should be followed to ensure good contact between the target pest and the nematodes.

Directions for use

Remove all fine filters (50 mesh or finer) from the application equipment. Empty one pack of nematodes and put contents in a bucket (figure a). Rinse packaging with a small volume of water to ensure all nematodes are washed into the bucket (figure b). Add the remaining volume of water required (minimum 10 L) and stir to ensure that the nematodes are well dispersed, making sure the entire product is mixed thoroughly (figure c). Add nematode suspension into the tank through its sieve. Fill tank to the required water level and apply immediately to the whole area at the appropriate rate (figure d). Irrigate immediately after application with up to 3 litres of water per m².



a.



b.



c.



d.

Application conditions

Thoroughly spike/aerate the affected area prior to treatment to provide channels for quick water movement down through the upper soil profile and to where the grubs are situated.

In taller swards, such as rough/fairways, it is recommended to cut the turf prior to application to facilitate nematode penetration into the soil as well as to ensure the soil is moist (ideally apply during rainfall) for at least two weeks after application. Soil moisture monitoring probes can be used to map the treated area.

The soil temperature should be above 12°C and the application made early morning or late afternoon/evening to avoid direct sunlight as the nematodes are killed by UV light. It is advisable to irrigate immediately after application to move the nematodes left on the turf surface below the thatch layer; the use of a wetting agent will greatly improve the movement of nematodes to the target pest.

Treatments should be applied when Chafer Grubs and

Leatherjackets are present and close to the soil surface, usually in August/September (during late October/November grubs move deeper in the soil making them difficult to target).

The soil must continue to be moist to allow the nematodes to survive and remain mobile and so post treatment irrigation may be required for 14 days after treatment.

Product handling

Agitate nematodes constantly during application. Use of specific nozzles that allow spray penetration to the soil surface, such as the Syngenta XC 08 nozzle, should be considered to improve soil deposition through the thatch layer. Suitable nozzles should produce a medium or coarse spray the intended application pressure (nozzle aperture greater than 0.5 mm). Do not exceed 300 psi/20 bar/2000 kPa pump pressure.

Use of a penetrant wetting agent such as H²Pro FlowSmart will help the water and nematodes quickly move down through the thatch and upper soil profile.

Use entire contents of pack at one time, do not split or subdivide individual packs as each contains a measured dose of nematodes and use immediately or store in a refrigerator at 5°C upon receipt. Do not freeze as forming ice crystals will rupture the nematodes. It is also important to remember not to use the product if past the expiry date or if it has been incorrectly stored. For information relating to which products are compatible with Nemasys® G or Nemasys® J ask your distributor.

Delivery

Nemasys G and Nemasys J are living products. They will be dispatched directly from the production facility on an overnight carrier. Once received, the transport box should be opened and refrigerated at between 2°C and 5°C for up to a maximum of 4 weeks.

Health and safety

A Safety Data Sheet is available on request.