BIOPESTICIDAL NEMA GEL

BRIEF DESCRIPTION:

A major constraint for practical use of nematode based bioagent for pest control has been its poor shelf life at temperatures higher than 300C, prevailing in tropical and sub-tropical regions of the world.

The newly developed technology has utilized highly mobile nematode entrapped in the matrix of a special kind of hydrogel maintained at a specific moisture level, thus overcomes the constraints of high temperature and stability with high efficacy for controlling wide range of insect pests. The technology has been developed by Indian Agricultural Research Institute (New Delhi),

The Nema Gel contains an indigenous insect-killer nematode, which has been isolated in the laboratory. This nematode species is heat tolerant and can kill a broad range of soil and foliar insect pests of various crops such as cereals, pulses, oilseeds, vegetables, fruit trees etc.

SALIENT FEATURES

- Employs an indigenous strain of the nematode.
- Safe for the plants, farm-animals, non-target pests, human health and the environment.
- High reproductive potential of the nematode favors its recycling in the environment.
- No special equipments needed for application
- Application in the soil not only manages the soil pests but also increase the water holding capacity of the soil.
- Eco-friendly, water absorbing and microbe resistant.
- Besides being heat tolerant, this bioagent can effectively kill the insect pests at a wide range of soil moisture level (3-19%).
- It offers an effective two-in-one solution for management of insect pests and water in agriculture.
- Its efficacy in field is visible within 24-48 hours of its application.
- The technology leads to significant improvement in the shelf-life of the nematode (few hours to 36 months) over a wide range of temperature (5-500C).
- The formation overcomes contamination by not allowing growth of microorganisms, and does not require any chemical reagent for its application.

Field with termite attack before and after Nemagel application

