

Biomite

Biological fly and gnat control for your farm

Predatory mite for flies and gnats on livestock farms

Biomite is a beneficial that feeds on flies and gnats in their egg and larval stages, breaking the life cycles of these pests. Biomites are effective on the various species of flies and gnats prevalent on farms.

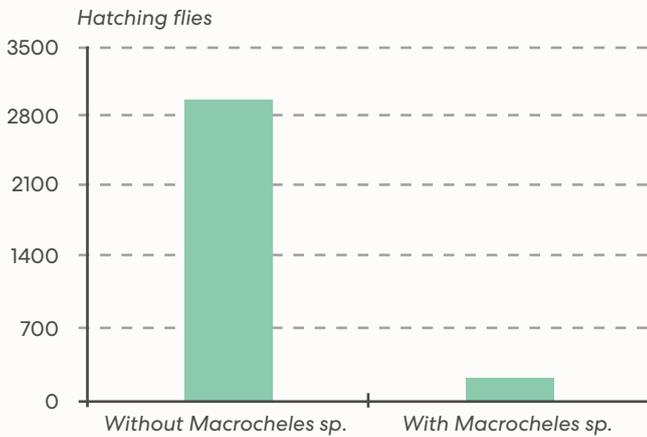


A complete and effective solution

- ✓ Safe to use around animals
- ✓ The products pose no danger to human or animal health
- ✓ Quick and easy to set up on your farm
- ✓ Effective against the main species of flies and gnats found on farms

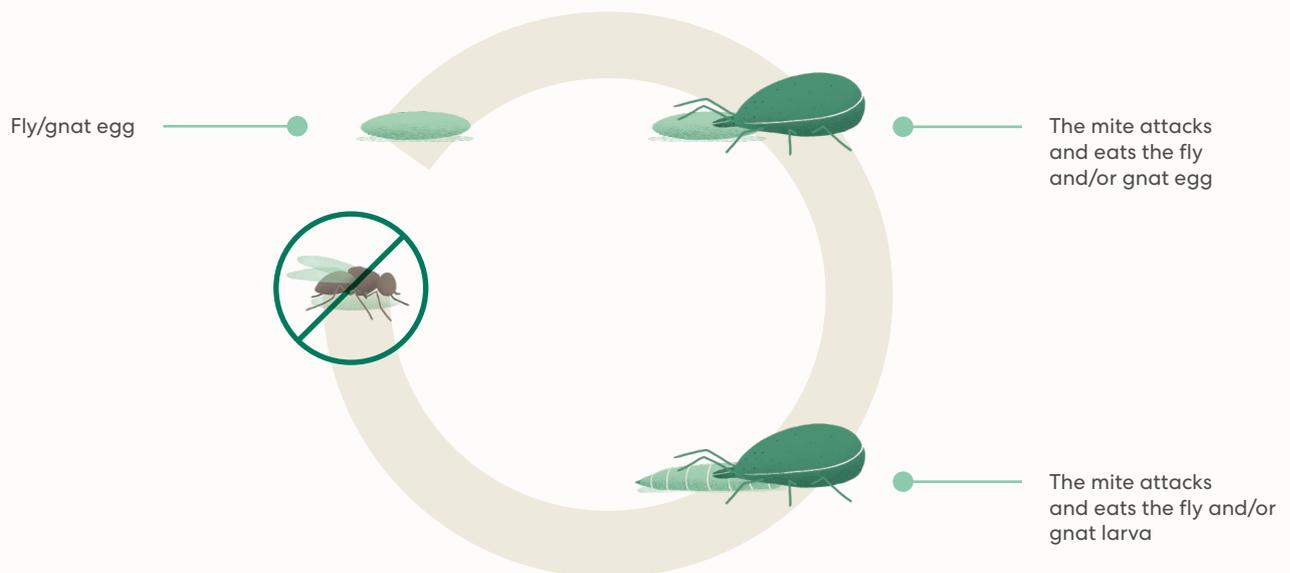
Biological fly control

Biomite is composed of predatory mites (*Macrocheles sp*) that feed on the larvae and eggs of flies and gnats. These polyphagous mites eat the eggs of various fly species such as: *Drosophilidae*, *Phoridae*, *Sciaridae* and *Muscidae*, *Musca domestica*, *Stomoxys calcitrans*, *Musca autumnalis*.



Biomite is safe to use and does not negatively affect animals, farmers or their neighbours. The predators live in the litter areas and manure, where they happily maintain their numbers.

Effectiveness of *Macrocheles sp.*, on the hatching of houseflies developing in fresh cattle manure. Adapted from Uri et al., Mites for pest control, 2003.



The beneficial's characteristics

- › It is highly polyphagous, capable of eating the eggs and larvae of many different species:
 - Biomite eats 3.5 stable fly eggs or 15 larvae(L1)/day
 - Biomite eats 4.4 housefly eggs or 3.5 larvae(L1)/day
- › It can grow in different types of litter (composts, manure, straw)
- › The egg-to-egg cycle is rapid (10 - 15 days)



Instructions

Dosage

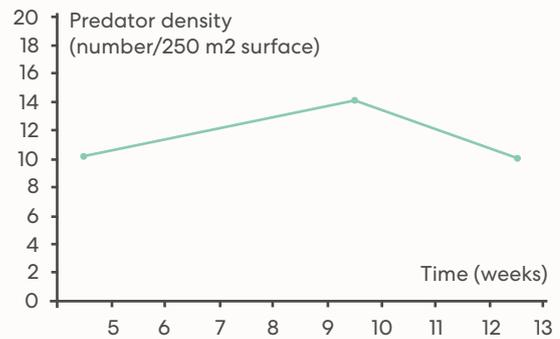
Biomite is available in one size containing 50,000 predators for treating a surface area of 250m².

Frequency

Biomite is used once at the start of the year or when bringing in a new flock to control flies during their earliest life stage development. It is necessary to establish a population at the start of the programme combined with Biopar, Biowasp and/or Biofly solutions in order to control the flies at all life stages.

Biomite contains mites at all stages of their life cycle with the adults being active from the moment of introduction. The time needed to colonise the environment will depend on the quantity of Biomite applied, the available food and the environmental conditions.

If there is an outbreak of flies, Biomite can be used in two or three applications with a one-week interval between applications to quickly reduce the stress caused by flies.



(Source: Koppert Biological System)

Lifespan and storage

Biomite is a live product and needs to be used immediately upon receipt. It may be stored but only for a very short time. Keep away from direct light and in a cool place (between 4°C and 15°C). Do not store for more than four days.



Use

- ✓ **In dry litter:** scatter around the edges of walls, under feeders, troughs, fences and bedding.
- ✓ **In wet litter:** scatter on the pit surface, under floor slats.

A complete pest-control programme

Products used in conjunction with Biomite

Intervention at all stages of the fly life cycle is necessary to keep the fly and gnat population on your farm down to a minimum. The range of BESTICO products makes this both possible and easy to do!

Contact one of our technical sales representatives to identify the appropriate treatment steps for your farm so that you can get started with a pest-control programme that matches your needs. Each programme will vary depending on local temperatures and the number of animals.

Fly trap

The Appibuster bucket is a trap for adult flies, to be placed where the herd returns from grazing and around buildings. A complementary tool to use alongside our biological pest-control solutions.



Biowasp/Biopar

Biowasp and Biopar are made up of two species of mini-wasps (*Muscidifurax raptor* & *Spalangia cameroni*) that act to supplement Biomite in fly pupae predation.



Biofly

Biofly is made up of flies that feed on the larvae of other flies (*Ophyra aenescens*), specially adapted to wet environments.



Get the best results

To get the best results in reducing your fly and gnat population, set up a programme adapted to your farm as early in the season as possible. Each programme is based on the type of farm, building surface area and number of animals. These variables determine the combinations of predators to place, their quantities and the frequency of application.

BESTICO

(Let insects do the job.)

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