PHEROMONES AND TRAPS

1986

ECONEX TOMICUS
DESTRUENS 60 DAYS

SOLUTIONS OVERVIEW

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Attractants ECONEX TOMICUS DESTRUENS 60 DAYS.

The product contains two kairomonal attractant diffusers with 60 days duration. The diffusers are in a blister pack and individually packaged in an aluminium sachet with label specifications.

Diffuser A, contains 25 ml of α-pinene with 98% purity. The release rate is 0.3 g per day at 20°C.

Diffuser B, contains 100 ml of ethanol with 96% purity. The release rate is 2 g per day at 20°C.

Once removed from the packaging, the diffusers need no activation or opening, just placed correctly in the trap using the holes made for this purpose in one of the PVC sheets.

STORING THE DIFFUSERS

The product should not be stored for a long time. It must be stored in its original packaging and in the refrigerator at 4°C; or in the freezer at -18°C, in which case it will last between 90 and 150 days respectively.

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This collection cup stops the bark beetles from escaping because they cannot climb out due to the slippery product, although it allows the entrance and exit of the predator Thanasimus formicarius, which devours the captured insects. In this way, the impact of the trap system is minimized on useful fauna.

In parks, gardens and residential areas

The management of Tomicus in parks and gardens presents some peculiarities that differentiate it from management in forest environments. The biggest risk of attack in ornamental trees is caused by mechanical damage. Work involving excavation around the trees, more or less severe, destroys the roots and often causes a weakening that facilitates the attacks by Tomicus. In general, ornamental trees are not very vulnerable to attacks by Tomicus, provided that they maintain the same conditions that they grew in. Sometimes, placing or removing irrigation systems in garden areas can provoke attacks from these insects.

The control of Tomicus in these situations must be very effective, as it is about reducing the mortality rate of the trees to zero. Therefore, efforts should be made to intensify trapping to the maximum. This means a density of 3 CROSSTRAP® MINI per ha, which should be controlled weekly.

**NECESSARY MATERIAL**

**CROSSTRAP® MINI TRAPS.**

The CROSSTRAP® MINI trap is a state-of-the-art forest trap. This trap has been created through an R + D project (University of Murcia - ECONEX) aimed at developing traps and attractants for forest insects.

The trap consists of a 33 cm diameter polypropylene lid with a central carabiner attached to a steel spring. Two reinforced PVC vanes are held in place by four steel springs in the lid’s upper section. They are used as elements of dynamic suspension, serving as shock-absorbers against the force of the wind exerted on the trap, avoiding its breakage in the forest.

They are also fixed in the lower part of a 30 cm diameter polypropylene funnel. The collection cup is fixed to the lower part of the funnel by screws.

The vanes, funnel and collection cup are treated with a slippery product that increases the amount of captures considerably, also preventing the insects from escaping.

The trap can be used with two types of collection cup: CROSSTRAP® WET COLLECTION CUP for wet captures (with liquid), and CROSSTRAP® DRY COLLECTION CUP for live captures (without liquid).

CROSSTRAP® WET COLLECTION CUP has an approximate capacity of 2 litres and a drain in the upper section to prevent it from filling with rainwater. It measures 12.5 cm diameter x 19 cm high and contains a slippery product to prevent the captured insects from escaping.

CROSSTRAP® DRY COLLECTION CUP has the same capacity and measurements as the CROSSTRAP® WET COLLECTION CUP but it has a base made of stainless steel mesh that drains away the rainwater 100% and eases air circulation.

**EXHAUSTIVE MONITORING**

In forests

In parks, gardens and residential areas

For exhaustive monitoring, the traps should be placed in areas where forest insect activity is the greatest or in forest areas with high insect activity. The traps should be placed at a distance between 100 and 500 metres apart from each other in forest trails, firebreaks or forest borders.

This means a density of 0.3 to 3 CROSSTRAP® MINI per ha. They can also be placed inside the forest, as long as it is not too dense. Dry captures are recommended for exhaustive monitoring using the slippery collection cup with a stainless steel mesh on the base.

**DIFFUSERS OF KAIROMONES**

ECONEX TOMICUS DESTRUENS 60 DAYS

Diffusers of kairomones ECONEX TOMICUS DESTRUENS 60 DAYS placed in a trap CROSSTRAP® MINI WITH WET COLLECTION CUP

The CROSSTRAP® MINI trap can last up to 7 years due to its structure and highly resistant components. The unfolded trap measures 33 cm diameter x 100 cm high. Once folded, it is 33 cm diameter x 40 cm high, making its transport easier.

**POSITIONING AND USE:** The trap should be suspended horizontally with a rope in-between two trees or from one of the branches, taking care that the trap does not come into contact with the tree trunk. In this way, the trap does not knock against the tree and break, therefore ensuring that the insects are able to distinguish the trap from the tree trunk and go to the trap.

The trap is activated by placing the attractant diffusers hung in the holes of one of the PVC sheets with the clips provided.