Therefore, it is a slow, hidden and silent process that takes many years to occur, given that it is cumulative. In an instant, it can end the life of a centenarian tree. These attacks are of great importance in open woodlands and cork oak stands of Western Andalusia; Extremadura; and in oak groves of the Balearic Islands.

ECONEX CERAMBYX

SOLUTIONS OVERVIEW

<table>
<thead>
<tr>
<th>CODE</th>
<th>TRADE NAME</th>
<th>IMAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>VA303</td>
<td>ECONEX CERAMBYX 60 DAYS Diffuser of kairomones that should be placed on a CROSSTRAP® XYLOFAGOS. It lasts for 60 days.</td>
<td></td>
</tr>
<tr>
<td>TA196</td>
<td>CROSSTRAP® XYLOFAGOS WITH DRY COLLECTION CUP</td>
<td></td>
</tr>
<tr>
<td>VA399</td>
<td>ECONEX CERAMBYX 1 L Kairomonal liquid attractant for ECONEX CERAMBYX TRAPS.</td>
<td></td>
</tr>
<tr>
<td>VA407</td>
<td>ECONEX CERAMBYX 5 L Kairomonal liquid attractant for ECONEX CERAMBYX TRAPS.</td>
<td></td>
</tr>
<tr>
<td>TA259</td>
<td>ECONEX CERAMBYX TRAP Disposable trap to capture Cerambyx spp.</td>
<td></td>
</tr>
<tr>
<td>TA157</td>
<td>CROSSTRAP® DRY COLLECTION CUP Collection cup for live captures (without liquid).</td>
<td></td>
</tr>
</tbody>
</table>

ECONEX® CERAMBYX

Great Capricorn beetle

BIOCONTROL

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CROSSTRAP XYLOFAGOS WITH DRY COLLECTION CUP

or 15 days to avoid interfering with secondary fauna.

Dry capture is recommended as well as control of the traps every week.

rated from 100 to 500 metres apart from each other. The traps should

should be placed per hectare.

To reinforce monitoring, up to 3 traps per hectare can be placed, sepa-

in exclusive use by SANIDAD AGRÍCOLA ECONEX, S.L.

CUP for live captures (without liquid).

The trap is used together with the CROSSTRAP  DRY COLLECTION

effect that is a liquid attractant used for filling the traps, its duration in field conditions will depend on climate conditions such as humidity, temperature, sun exposure, etc.

CROPS AND USES: Population monitoring in forests with Quercus spp. Place 1 or 2 ECONEX CERAMBYX TRAP per hectare. The traps, together with the attractant, should be placed in the forest between June and August, depending on the target species.

The attractant must be stored in its original packaging in the refrigera-

The folded trap measures 33 cm diameter x 88 cm high. To make its

transport easier, the trap is packaged with the sheets separated and

the funnel folded.

Remove the trap once the trapping period has finished to avoid any

incidences with secondary fauna.

ECONEX CERAMBYX 60 DAYS DIFFUSER

The diffuser should be hung on one of the holes that have been made for this purpose on the sheet.

The diffuser is in a blister pack and individually packaged in an alu-

minium sachet with labelled specifications. It lasts 60 days in field

conditions.

Once removed from the packag-

ing, the diffuser needs no activa-

tion or opening, just placed cor-

rectly in the trap.

The diffusers must be stored in its original packaging in the refrigera-

tor at 4 °C; or in the freezer at -18 °C, in which case they will last

for 90 and 150 days respectively.

ECONEX CERAMBYX 1 L and 5 L LIQUID ATTRACTANT

Kairomonal liquid attractant to capture both sexes of different species of Cerambyx. To be used with an ECONEX CERAMBYX TRAP.

Chemical formulation patented by the UNIVERSITY OF HUELVA in exclusive use by SANIDAD AGRÍCOLA ECONEX, S.L.

NECESSARY MATERIAL

CROSSTRAP® XYLOFAGOS WITH DRY COLLECTION CUP

It is a trap specifically designed to cap-

ture insects that walk on the bark of

trees. It is capable of adapting to the

perimeter of the trunk due to its flexi-

ble funnel.

The trap consists of a 30 cm diameter soft funnel joined to a collection cup. A sheet of cellular polycarbonate is used as a folded cover, which should be placed in contact with the tree trunk. The trap is fixed to the tree trunk with two nylon cords. The lower cord holds the trap, joining the sheet and funnel through a series of holes and grooves on the sheet. The upper cord is used to maintain the sheet attached to the tree trunk, which also has a series of lateral holes in which to place the ECONEX CERAMBYX 60 DAYS attractant.

The sheets, funnel and collection cup are treated with a slippery product that increases the amount of cap-

tures considerably, preventing the insects from escaping.

The trap is used together with the CROSSTRAP® DRY COLLECTION

CUP for live captures (without liquid).

The trap is activated by hanging the ECONEX CERAMBYX 60 DAYS attractant diffuser on one of the holes on the sheet with the paper clip provided with the trap.

ECONEX CERAMBYX TRAP

In an effort to adapt the product to use it in large open woodlands, ECONEX has
developed this disposable and economic trap. It is used together with the attrac-
tant ECONEX CERAMBYX 1 L or ECONEX CERAMBYX 5 L.

The trap consists of a container with an inverted funnel in the upper part and two cords to tie it around the tree trunk. Once it is attached correctly to the tree trunk, fill the trap with approximately 250 ml of liquid attractant. It is recommended to place a trap in each tree with symptoms of attack by Cerambyx.

ECONEX CERAMBYX 1 L and 5 L LIQUID ATTRACTANT

Kairomonal liquid attractant to capture both sexes of different species of Cerambyx.

To capture C. welensii, pour 250 ml of attractant into an ECONEX CERAMBYX TRAP and replace it every 3 or 4 days depending on the evaporation of the product.

The traps should be placed in June, to capture the peak flight

period of this species.

For other species of Cerambyx, check the traps every week or 15 days, remove the captured insects and refill with another 250 ml of the liquid attractant if necessary.

As it is a liquid attractant used for filling the traps, its duration in field conditions will depend on climate conditions such as humidity, temperature, sun exposure, etc.

CROPS AND USES: Population monitoring in forests with Quercus spp. Place 1 or 2 ECONEX CERAMBYX TRAP per hectare. The traps, together with the attractant, should be placed in the forest between June and August, depending on the target species.

The attractant must be stored in its original packaging in the refrigera-
tor at 4 °C; or in the freezer at -18 °C, in which case it will last between

90 and 150 days respectively.

DAMAGES AND ELEMENTS OF DIAGNOSIS

The adults can be observed licking the exudations from the cankers of the trees, mainly caused by wounds due to bad pruning. The adults lay their eggs close to these open and oozing wounds as a way to access their main food supply, xylem.

The trees infected by initial attacks do not show any symptoms. When the population of the larvae and their size increase, some accumu-
lations of sawdust can be observed.

After the first adults emerge, exit holes filled with lots of sawdust are clearly shown.

These insects continue reproducing on the same tree for years because the larvae feed on the xylem, therefore not causing the direct and immediate death of the tree. In any case, the crown of the affected tree loses vigour and defoliation increases over the years. If the insect attacks just one thick branch, only a part of the crown is affected. The destruction of the xylem vessels reduces the amount of water that flows up to the crown and as a consequence, the foliation decreases.