

TreeCare

Building a greener city
today, for tomorrow



syngenta®



Syngenta TreeCare is the latest arboreal innovation and technology to manage pests. Aretor is a long lasting tree care product that you can entrust upon, particularly powerful against insects to enhance, maintain good physiological health and securing dense canopy.

TreeCare using Aretor

Aretor is a **preventative and curative** TreeCare application for targeted pests. It reaches infestations hidden within the tree and therefore not accessible using conventional treatments, such as foliar spraying and pruning.

Aretor is introduced directly into the tree's vascular system via tiny holes drilled into the sapwood. A safety plug is inserted into the hole prior to the injection of Aretor to prevent leakage. Together with the formulation, it creates a closed, sealed system, protecting the user, non-target organisms, the environment and public. Easy to apply, Aretor has also been tested extensively to ensure it is a safe formulation for trees.

Aretor offers an integrated solution:

- Up to 1 year protection of trees
- Protect against caterpillars and beetles
- Safe for the tree, environment and the user
- Specially designed formulation for TreeCare, delivering the product directly into the xylem of the tree
- More cost-effective than heavy pruning

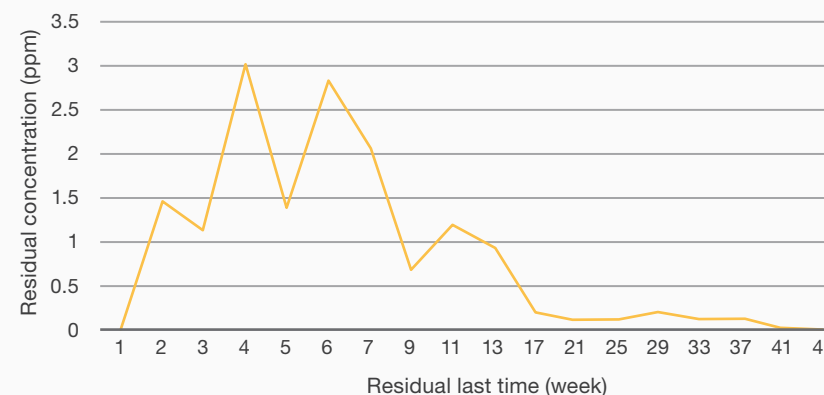
How Aretor controls insects

Aretor is a **naturally derived** highly effective insecticide. It contains the active ingredient Emamectin benzoate, causing permanent prevention of muscle contraction, which results in a loss of cell function and disruption of nerve impulses. The insects become paralyzed and eventually die. Feeding stops almost immediately and can take up to 4 days for death to occur. **During this period the host plant is not damaged**, taking 1–2 months after injection for the active ingredient to be translocated to the foliage.

Trust

► Trees are protected against pests up to one year

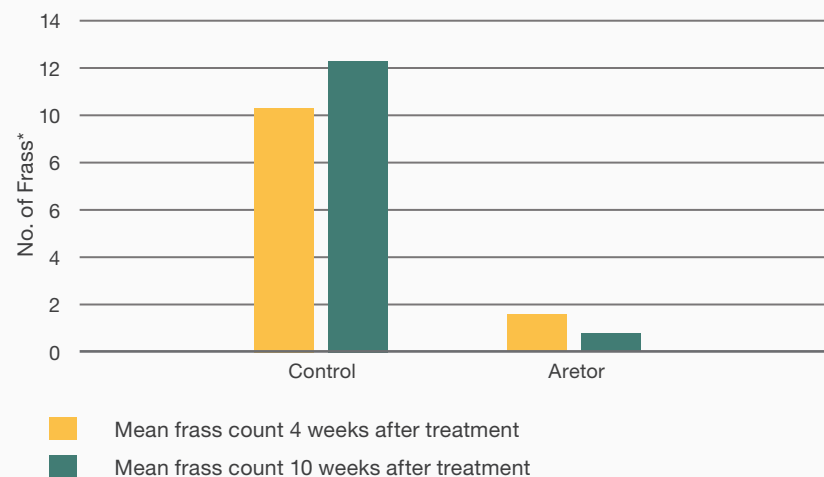
Concentrations of EMA in rain tree tissues over whole experiment period



Powerful

► Long term control of pests to reduce public complaints

Average caterpillar frass count for different treatments at 4 and 10 weeks after micro-injection



Source: Trial at Ang Mo Kio Town Council by AVA (July 2015 – Aug 2016)

*note: 30 x 30cm quadrant

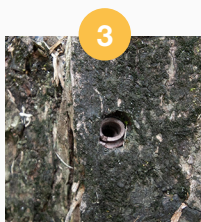
Secure ▸ Aretor is safe and easy to apply



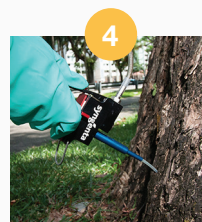
Calculate no. of injection points, this depends upon the Diameter of the trunk at Breast Height.



Drill holes through the bark into the sapwood of the trunk using 8mm drill bit.



Insert Syngenta biodegradable plug immediately, this will remain in the tree.



Inject Aretor solution, using Tree Micro-Injection equipment into the biodegradable plug.

| DBH (cm) | 18-22 | 23-27 | 28-32 | 33-37 | 38-42 | 43-47 | 48-52 | 53-57 | 58-62 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Number of injection points | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

**We recommend trees below 20cm DBH not to be treated because they are usually not affected by the PWN.*

**Syngenta recommends the use of its proprietary biodegradable plugs that pose no environmental risk.*

Use recommendation

5ml Aretor / 1 injection point.
1 injection point / 5 cm DBH
(Diameter at Breast Height)
Holes should be 15cm apart.

Timing recommendation

For Caterpillars and Beetles we recommend to apply as a preventative measure before heavy infestation (i.e. *Polydesma boarmoides* Moth caterpillar occurs from April to October).

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