



# Xytect™

broad-spectrum, systemic insecticide

**Xytect™** is a systemic insecticide that utilizes the proven performance of imidacloprid. It is highly effective against a broad range of ornamental pests and can be applied to trees, shrubs, and turf with a variety of methods.

**Xytect™** consists of three products: Xytect 2F, Xytect 75WSP, and Xytect Infusible. The active ingredient imidacloprid is in the chloronicotinyl chemical class and has a proven track record of performance. It blocks receptor sites in the insect's nervous system and disrupts internal transmission of messages. When insects ingest imidacloprid they quickly stop feeding and die.



*Quality Comes With Knowledge*

## Systemic insecticide

Xytect is a systemic insecticide that is translocated to the canopy from the root system. It is highly effective against a broad range of ornamental pests, and may be applied in a variety of ways depending on your circumstance. Applications made as a foliar spray offer locally systemic activity against insect pests.

## Why three different products?

It has been said that if your only tool is a hammer, then all your problems start to look like nails. Sound arboriculture requires using the best insect management technique to achieve the desired result with the least harm to the tree. This is why we offer three products to best fit your needs and the problems you are dealing with.

**Xytect 2F** is a liquid formulation of imidacloprid that allows for easy dosing of individual trees. Great for small job sites.

**Xytect 75WSP** is a water soluble packet that readily creates a stock solution.

**Xytect Infusible** is a proven formulation of imidacloprid for root flare infusion. Use the M3 Infuser for fast uptake in situations that require quick results.

## Which application method do I use?

Sometimes the quick efficacy of an injection is required, but in other situations a spray or soil application will work without wounding the tree. Each situation is different - don't be caught with only a hammer in your toolbox.

application method

	foliar spray	soil application	tree infusion
formulation	Xytect 2F Xytect 75WSP	Xytect 2F Xytect 75WSP	Xytect Infusible
insects start dying	same day	In 30 to 60 days	7-14 days
residual performance	several weeks may require multiple applications	season long control fall applications can provide season long control the following year	season long control
equipment needed	spray rig or backpack sprayer	HTI 2000 or other soil application system basal drench equipment	M3 Infuser or Macro-Infusion system
chemical cost	lower	moderate	higher
labor time	moderate may require multiple sprays	fast 10-20 minutes	moderate 25-60 minutes
considerations	spray drift exposure to applicator & non-target organisms weather dependent	not to be applied in areas with high water tables	wounds the tree not recommend for annual treatment use when spraying is not feasible



## application methods for detailed protocols see the Xytect application guide

### Foliar Sprays - Xytect 2F or Xytect 75WSP

Foliar applications will provide quick control of most pests listed on the label, but the residual effects are shorter lived than soil applications or root flare infusions. Residual effects are typically from 2-3 weeks although longer control may be seen occasionally. Multiple applications may be needed throughout the season in order to maintain acceptable control.

When making foliar applications on hard to wet foliage such as holly, pine, or ivy, the use of a spreader/sticker is recommended.

### Soil Application - Xytect 2F or Xytect 75WSP

Performance of Xytect begins when it reaches sufficient levels in the target tissue where insects feed. With soil applications this could take 6 weeks or longer, and for this reason applications should be made prior to the anticipated pest infestation. For best and fastest results the product must be placed in the immediate vicinity of the roots.

#### Basal Drench

In soils receptive to liquid penetration, Xytect may be applied as a drench at the root collar using a bucket or watering can. A shallow trench should be dug around the base of the tree to prevent run-off.



Basal Drench

#### Soil Injection

**Basal injection** – this is the preferred method of application of Xytect because of its speed and effectiveness. Injections should be 6-12 inches out from the root collar and 4-6 inches deep. The base of the tree has the highest concentration of roots, which means this method provides the quickest, most reliable results.

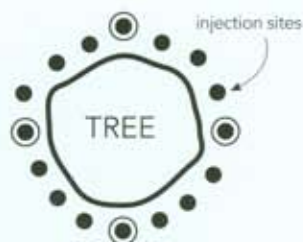
**Grid pattern** – Holes are spaced on 2.5 foot centers in a grid pattern extending to the drip line of the tree. Larger trees require more holes. The drawback of the grid methods is material placed in between roots may not be taken up, which can compromise overall performance.



HTI 2000 Soil Injector

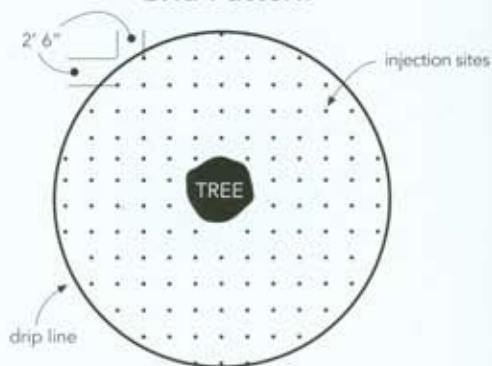
#### Basal Injection

Basal application of Xytect by drench or soil injection within 12" of the root collar provides the most reliable results. This area has the highest concentration of absorbing roots and is closer to the target pest.



● Inject these locations first then evenly distribute the remaining solution

#### Grid Pattern





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For Product and Research Information

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