

Applying Imidacloprid 75 WSP (1.6 oz packet) by Kioritz Soil Injector

The Kioritz soil injector holds up to 96 ounces of fluid and dispenses 1/6 ounce of fluid with each pump when the calibration ring is set on 5. Each 1.6 oz packet of Imidacloprid 75 WSP will treat an average of 45 diameter inches.

Step 1. Judge whether the soil moisture level is moderate to wet or dry to normal. If you're in doubt about soil moisture level, you should default to the "Dry to Normal Soil" instructions.

Step 2. To make a master batch of treatment mixture, follow the proportions of water and packets of product shown in the Mixing chart below. **Warm water** works best for dissolving the packets. Put the water in a mixing container first. Then add the corresponding number of packets and shake well.

MIXING		
Amount of Product	Amount of Water for Moderate to Wet Soil	Amount of Water for Dry to Normal Soil
Put 1 entire 1.6 oz packet into water; don't open the packet.	12 fl oz Each fl oz of this mixture contains 3 grams of active ingredient.	24 fl oz Each fl oz of this mixture contains 1.5 grams of active ingredient.
2 packets	24 fl oz	48 fl oz
3 packets	36 fl oz	72 fl oz
4 packets	48 fl oz	96 fl oz (3 qts)

Step 3. Measure the trunk diameter of the tree at breast height. This is called "inches dbh."

Step 4. Rake back any leaf litter, duff or debris from the base of the tree so that bare soil is accessible. At a distance of **no more than 12 inches from the base of the tree**, make one injector hole in the soil for each inch of trunk diameter. The holes should be evenly spaced around the tree and **no deeper than 2-4 inches**.

Note: For trees that are smaller than 4 inches in diameter, make a minimum of 4 shallow holes around the tree.

Step 5. Based on the trunk diameter, pump the injector handle the number of times shown in the Dosing chart below. **Be sure to stay in the same moisture level column as you used for mixing.**

DOSING			
Inches (DBH)	Pumps per Inch DBH for Moderate to Wet Soil	Pumps per Inch DBH for Dry to Normal Soil	Active Ingredient per Inch DBH
1-11	1 pump / hole	2 pumps / hole	.5 gram
12-18	1.5* pumps / hole	3 pumps / hole	.75 gram
19-22	2 pumps / hole	4 pumps / hole	1 gram
>22 should be treated 2 consecutive years.	3 pumps / hole	6 pumps / hole	1.5 gram x 2 years

* To get the equivalent of 1.5 pumps per hole, do 1 pump in half the holes and 2 pumps in the other half, distributing these two levels evenly around the tree. Or do 1 1/2 times the number of holes per inch DBH and do 1 pump per hole.

Step 6. When you're finished treating each tree, mark it to indicate it's been treated. When finished working, **triple rinse the injector** as described in "Introduction to Treating Hemlocks" and store it upside down.

CALL THE HEMLOCK HELP LINE 706-429-8010 WITH ANY QUESTIONS.

