

Applying Imidacloprid 75 WP (wettable powder) by Nu-Arbor 1-Two Root Injector

The Nu-Arbor injector holds up to 4 gallons of fluid and dispenses a standard 1/4 ounce of fluid with each stroke. Each ounce of Imidacloprid 75 WP treats an average of 28 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 "Moderate to Wet 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 THE MASTER BATCH | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Amount of Product | Amount of Water for Moderate to Wet Soil Each fl oz of this solution contains 2 grams of active ingredient. | Amount of Water for Dry to Normal Soil Each fl oz of this solution contains 1 gram of active ingredient. |
| 1.5 oz | 16 fl oz | 32 fl oz |
| 3 oz | 32 fl oz | 64 fl oz |
| 4.5 oz | 48 fl oz | 96 fl oz |
| 6 oz | 64 fl oz | 1 gallon |
| 12 oz | 1 gallon | 2 gallons |
| 18 oz | 1.5 gallons | 3 gallons |
| 24 oz | 2 gallons | 4 gallons |

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

Step 4. Rake back any leaf litter, needle 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 EACH TREE | | |
|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|
| Inches (DBH) | Strokes PER INCH DBH for Moderate to Wet Soil | Strokes PER INCH DBH for Dry to Normal Soil |
| 1-11 | 1 stroke / hole | 2 strokes / hole |
| 12-18 | 1.5 strokes* / hole | 3 strokes / hole |
| 19-22 | 2 strokes / hole | 4 strokes / hole |
| >22 should be treated two consecutive years. | 3 strokes / hole | 6 strokes / hole |

* To get the equivalent of 1.5 strokes per hole, do 1 stroke in half the holes and 2 strokes in the other half, distributing these two levels evenly around the tree.

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

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



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