

Applying Imidacloprid 4F (42.3% Flowable) by Soil Drench

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 when applying 4F by drench.

Step 2. To make a master batch of solution, follow the proportions of water and amount of product shown in the Mixing chart below. Note that the first line of the Mixing chart indicates the basic proportions of product and water as shown on the product label. The remaining lines use the same mixing proportions but show them for larger standard quantities. Put the water and chemical in the mixing container and shake well.

MIXING		
Amount of Product	Amount of Water for Moderate to Wet Soil	Amount of Water for Dry to Normal Soil
1 fl oz	3.7 fl oz Each fl oz of this mixture contains 3 grams of active ingredient.	8.4 fl oz Each fl oz of this mixture contains 1.5 grams of active ingredient.
7 fl oz	26 fl oz	59 fl oz
13 fl oz	48 fl oz	109 fl oz
20 fl oz	74 fl oz	168 fl oz

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**, use a piece of rebar to make one 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 smaller than 4 inches in diameter, make a minimum of 4 shallow holes around the tree.

Step 5. Treatment is done on an **individual tree** basis. Use the Dosing table below to determine how many ounces of solution the tree needs by multiplying its trunk diameter by the number of ounces shown in the appropriate Dosage column. **Be sure to stay in the same moisture level column as you used for mixing.**

DOSING			
Inches (DBH)	Oz of SOLUTION per Inch DBH for Moderate to Wet Soil	Oz of SOLUTION per Inch DBH for Dry to Normal Soil	Active Ingredient per Inch DBH
1-11	1 / 6 fl oz solution	1 / 3 fl oz solution	.5 gram
12-18	1 / 4 fl oz solution	1 / 2 fl oz solution	.75 gram
19-22	1 / 3 fl oz solution	2 / 3 fl oz solution	1 gram
>22 should be treated 2 consecutive years.	1 / 2 fl oz solution	1 fl oz solution	1.5 gram

Step 6. Use a measuring cup to measure out exactly the required amount of solution for the tree and pour it into a larger dispensing container. Then **add more water** to make it easier to distribute the material evenly around the tree, as follows: For trees up to 12" DBH, add 1 gallon of water. Add 1 more pint of water for every inch of diameter over 12.

Step 7. Pour the solution slowly into the holes to avoid runoff and be sure to use it all up on the intended tree. When you're finished treating each tree, mark it to indicate it's been treated. Give the treatment time to dry before children or pets are allowed in the area.

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

