

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

**Step 1.** To make a master batch of treatment mixture, 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 on a per-diameter-inch basis 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 THE MASTER BATCH	
Amount of Product	Amount of Water
1 fl oz	8.5 fl oz
8 fl oz	68 fl oz
16 fl oz	136 fl oz
24 fl oz	204 fl oz
32 fl oz	272 fl oz

**Step 2.** Measure the trunk diameter of the tree at breast height. This is called “inches dbh.”

**Step 3.** 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**, 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 4.** Treatment is done on an **individual tree** basis. Use the Dosing table below to determine how many ounces of treatment mixture the tree needs by multiplying its trunk diameter by the number of ounces shown in the Dosage column.

DOSING	
Inches (DBH)	Oz of TREATMENT MIXTURE <b>PER INCH DBH</b>
1-11	1/3 fl oz solution
12-18	1/2 fl oz solution
19-22	2/3 fl oz solution
>22 should be treated 2 consecutive years.	1 fl oz solution

**Step 5.** Use a measuring cup to measure out exactly the required amount of treatment mixture for the tree and put it into a larger pouring container. Then **add more water** to the pouring container make it easier to distribute the material evenly around the tree, as follows:

- For trees up to 12” in diameter, add one gallon of water.
- Add one more pint of water for every inch of diameter over 12.

**Step 6.** Pour the treatment mixture into the holes and all around the base of the tree slowly 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.**

