

# Applying Imidacloprid 4F (42.3% Flowable) by EZ-Ject Soil Injector

One gallon of 4F concentrate contains 4 pounds (1,814 grams) of active ingredient and treats an average of 2,416 diameter inches. The EZ-Ject injector holds up to 1 gallon of treatment mixture. **If you have the model that dispenses 1/4 ounce of fluid per pump**, follow the instructions below. (See next page for 1/2 ounce output mixing/dosing instructions.)

**Step 1.** To make a master batch of treatment mixture, follow the proportions of water and ounces of product shown in the Mixing chart below. **Warm water** works best. Put the water in the mixing container first; then add chemical and shake well until all is dissolved. To load the tank, pour through a **funnel and paint filter** to eliminate any undissolved material.

<b>MIXING THE MASTER BATCH</b>	
Each ounce of this mixture contains 2 grams of active ingredient.	
<b>Amount of Product</b>	<b>Amount of Water</b>
1 oz	6 oz
9 oz	54 oz
18 oz	108 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, 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 smaller than 4 inches in diameter, make a minimum of 4 shallow holes around the tree.

**Step 4.** Based on the trunk diameter, pump the injector handle the number of times shown in this Dosing chart.

<b>DOSING</b>	
Each pump dispenses ¼ ounce of mixture.	
<b>Inches (DBH)</b>	<b>Pumps PER INCH DBH</b>
1-11	1 pump / hole
12-18	1.5* pumps / hole
19-22	2 pumps / hole
>22 should be treated 2 years in a row.	3 pumps / hole

\* 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.

**Step 5.** 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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One gallon of 4L concentrate contains 4 pounds (1,814 grams) of active ingredient and treats an average of 2,416 diameter inches. The EZ-Ject injector holds up to 1 gallon of treatment mixture. **If you have the model that dispenses 1/2 ounce of fluid per pump**, follow the instructions below. (See previous page for 1/4 ounce output mixing/dosing instructions.)

**Step 1.** To make a master batch of treatment mixture, follow the proportions of water and ounces of product shown in the Mixing chart below. **Warm water** works best. Put the water in the mixing container first; then add chemical and shake well until all is dissolved. To load the tank, pour through a **funnel and paint filter** to eliminate any undissolved material.

<b>MIXING THE MASTER BATCH</b>	
Each ounce of this mixture contains 1 gram of active ingredient.	
<b>Amount of Product</b>	<b>Amount of Water</b>
1 oz	13 oz
9 oz	117 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, 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 smaller than 4 inches in diameter, make a minimum of 4 shallow holes around the tree.

**Step 4.** Based on the trunk diameter, pump the injector handle the number of times shown in this Dosing chart.

<b>DOSING</b>	
Each pump dispenses ½ ounce of mixture.	
<b>Inches (DBH)</b>	<b>Pumps PER INCH DBH</b>
1-11	1 pump / hole
12-18	1.5* pumps / hole
19-22	2 pumps / hole
>22 should be treated 2 years in a row.	3 pumps / hole

\* 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.

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