

# Applying Imidacloprid 2F or 2L (21.4 or 22.6%) by EZ-Ject Soil Injector

One gallon of 2F/2L concentrate contains 2 pounds (907 grams) of active ingredient and treats an average of 1,208 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 fl oz of this mixture contains 2 grams of active ingredient. |                        |
| <b>Amount of Product</b>  | <b>Amount of Water</b> |
| 1 oz  | 2.5 oz                 |
| 10 oz   | 25 oz                  |
| 18 oz   | 45 oz                  |
| 30 oz   | 75 oz                  |
| 36 oz   | 90 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 the Dosing chart below. **Be sure to stay in the same moisture level column as you used for mixing.**

| <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 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.**



# Applying Imidacloprid 2F or 2L (21.4 or 22.6%) by EZ-Ject Soil Injector

One gallon of 2F/2L concentrate contains 2 pounds (9007 grams) of active ingredient and treats an average of 1,208 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 fl oz of this mixture contains 1 gram 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 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.**

| <b>DOSING</b>                             |                           |
|---|---------------------------|
| Each pump dispenses 1/2 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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