SOIL INJECTION TREATMENT FOR HEMLOCK WOOLLY ADELGID

Using Imidacloprid WSP or 2F

MIXING INSTRUCTIONS:
Wear rubber gloves and eye protection. ALWAYS FOLLOW LABEL DIRECTIONS. Use mixing containers that are designated and labeled for insecticide use.

- **Water Soluble Packets (WSP):** Add one 1.6 oz. WSP to the mixing container. Fill the container with water to form a final volume of 48 fl. ounces. Agitate until the packet is dissolved and continue to agitate the mixture to make sure imidacloprid remains suspended in fluid.
- **Imidacloprid 2F (flowable):** Add 4.75 ounces of Imidacloprid 2F to the mixing container. Fill the container with water to form a final volume of 48 fl. oz. Agitate until the insecticide is dissolved and continue to agitate the mixture to make sure imidacloprid remains suspended in fluid.

*For other types of imidacloprid, follow label instructions for mixing or contact your county agent or GFC Forester.

**Soil injectors need to be calibrated with water prior to each use to ensure proper application amounts. See manufacturer recommendations for calibration.

**PUMPS PER OUNCE

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<th>KIORITZ</th>
<th>EZ-JECT LITE</th>
<th>1-2 ROOT INJECTOR</th>
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<tr>
<td>**PUMPS PER OUNCE</td>
<td>6</td>
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APPLICATION INSTRUCTIONS:

1. After calibrating the injector, use a funnel and carefully fill the injector tank with the suspension mixed as instructed above.

2. Measure the diameter at breast height (DBH, 4.5 feet above ground) to the nearest inch of the tree to be treated.

3. Application rate is 1 ounce of chemical suspension (the mixture created above) per inch of diameter. For example, an 8 inch DBH tree will require 8 ounces of chemical suspension. This will require 48 pumps of the Kioritz, 16 pumps of the EZ-Ject Lite, and 24 pumps of the 1-2 Root Injector to apply 8 oz of the suspension.

4. The imidacloprid suspension should be applied to the soil within 18 inches of the hemlock trunk. Brush away the top layer of organic material (the “duff” layer) in the immediate area where the suspension is being applied. Press the injector 2-4 inches under the soil and apply insecticide suspension with a “pump.” Space the applications evenly around the hemlock tree. You can do multiple pumps in each injection site if necessary.

**Caution:** Soil applications should NOT be made within 10 feet of a stream channel, lake, pond, or wetland. Do not use soil applications on rocky outcrops where there is very little soil around the base of the hemlock. Do not make soil applications immediately after rainfall or during a drought. The soil should be moist, not saturated, for maximum effectiveness.

5. When finished, triple rinse the injector and mixing containers with clean water, and pour the rinse water around treated trees (there is still usable chemical there). Make sure to also pump clean water through the injector after use.

UGA Extension/Georgia Forestry Commission offer soil injectors at county offices as a public service, and any damage is the responsibility of the borrower. Please make sure injectors are clean and dry before returning. A refundable deposit check of $250.00, made payable to UGA Extension/4-H or Georgia Forestry Commission, is required at the time of pickup. The check will be returned when the injector is returned and inspected by the agency.