

# Applying Zylam Liquid 10% by Kioritz Soil Injector

The Kioritz soil injector holds up to 96 ounces of fluid and dispenses 1/6 ounce of fluid per stroke when the calibration ring is set on the red number 5.

**Step 1.** To make a master batch of treatment mixture, put the required amount of water in a mixing container first. **Warm water** works best. Then add the corresponding amount of product shown in the Mixing chart below and shake well.

MIXING		
Amount of Product	Amount of Water	The mixing ratio for Kioritz soil injection is 32 ounces of product to 5.75 ounces of water.
16 ounces (1 pint)	2.875 fluid ounces	
32 ounces (1 quart)	5.75 fluid ounces	
64 ounces (2 quarts)	11.5 fluid ounces	
178 ounces (5.5 quarts)	32 fluid ounces (1 quart)	

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**, 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**. Injecting very close to the trunk, up against the big roots, and in the sinuses between the roots helps speed absorption.

NOTE: For trees that are 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.

DOSING		
Inches (DBH)	Pumps per Inch DBH	
1 – 15	1.5 pumps	Alternate 1 and 2 pumps around the tree.
16 – 19	2 pumps	
20 – 23	2.5 pumps	Alternate 2 and 3 pumps around the tree.
24 - 27	3 pumps	
28 – 31	3.5 pumps	Alternate 3 and 4 pumps around the tree.
32 – 35	4 pumps	
36 – 39	4.5 pumps	Alternate 4 and 5 pumps around the tree.
40 - 43	5 pumps	
44 – 47	5.5 pumps	Alternate 5 and 6 pumps around the tree.
48 or more	6 pumps	

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” and store it upside down.

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

