

# PENTRA-BARK®

## BARK PENETRATING SURFACTANT

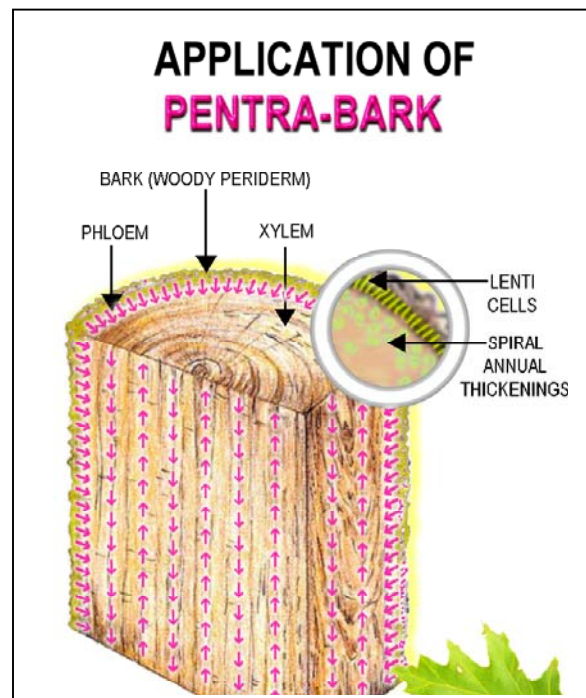
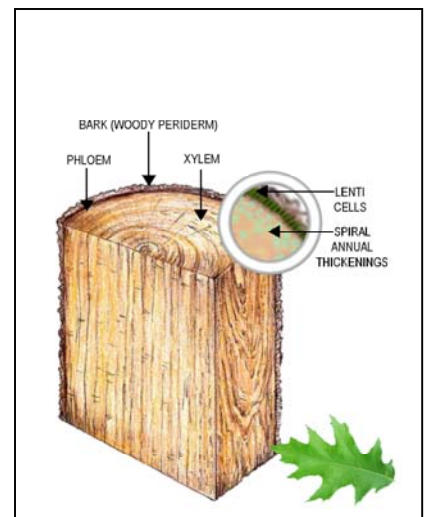
*Patent pending technology*

How does **PENTRA-BARK** work?

All woody plants have microscopic openings in the exterior protective bark periderm layer called lenticels. These **lenticels** are functionally used for plant transpiration and pressure regulation.

**Lenticels** connect directly to the plant's annual spiral openings or vascular metabolic transport system contained in the plant's cambial phelloderm.

When **PENTRA-BARK** is applied to the woody bark periderm in combination with systemic pesticides it opens the lenticels and enables movement through the lenticels into the plant's vascular transport system.



In the trial below, an inert dye was mixed with 3 oz. of **PENTRA-BARK** per gallon of water and applied onto the tree trunk with the basal bark application method.

The tree was dissected and examined 7 days after application. The inert dye had penetrated into the center of the tree within 7 days and the inert dye had also been transported throughout the tree's vascular system as evidenced by the dye being found 24 feet up into the canopy of the tree. Translocation of systemic pesticides primarily occurs in the cambial zone.



How much spray solution is required to treat a tree generally with the basal bark application method, applied from ground level to 5 feet up the trunk circumference?

**Approximate solution volume required for treatment per inch of DBH**

How much **PENTRA-Bark** should I use per gallon of spray?

**PENTRA-BARK** should be used at 1% of spray volume solution or 3 oz. per gallon of spray solution

DBH	Smooth Bark	Rough Bark
6"	<1 pint	1 pint
12"	1 quart	1½ quarts
18"	2 quarts	2 ½ quarts
24"	2 ½ quarts	3 quarts

Apply solution until saturation run-off occurs (DBH= diameter measured at 4.5 feet from ground level) Rough Bark trees require more solution for treatment

Manufactured by

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