

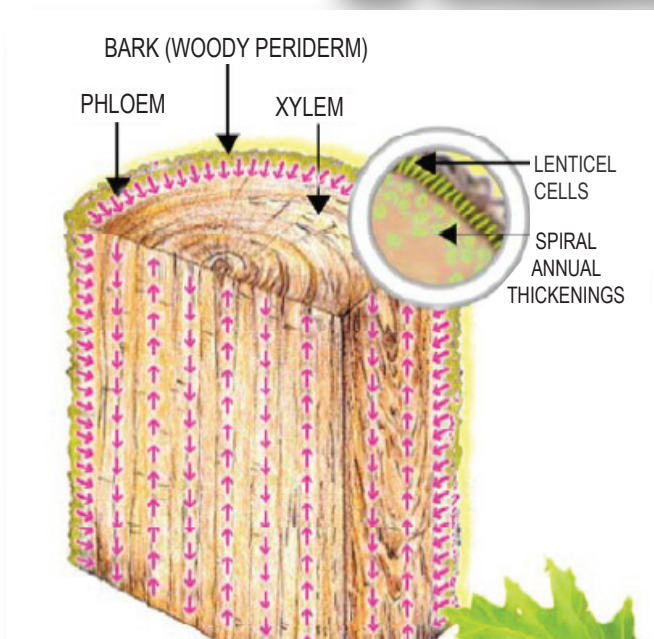
# PENTRA-BARK®

## BARK PENETRATING SURFACTANT



### 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.



- \* Easy Effective application
- \* No drift or chemical trespass
- \* Proven effective with various pesticides
- \* Effective with Admire® spray equipment
- \* The only tested and University proven Bark Penetrating Surfactant





# PENTRA-BARK SURFACTANT

*The Only University Tested And Proven Bark Penetrating Surfactant*

\* **Easy Effective application**

\* **Proven effective with Fungicides - Insecticides**

\* **No drift or chemical trespass**

\* **10 Year Track Record of Proven Performance**

Apply to tree trunk from ground level up to and including first scaffold limbs if possible for best performance to point of runoff.

## Florida Penetration Study Details

Randomized replicated trials conducted at the Florida Provision Ranch, Lake Placid, FL, acid blue dye mixed with water at 2.5% by volume with Pentra-Bark at 2% by volume or 3 oz. of per gallon/water was trialed along with several other surfactants alleging bark periderm penetration. Spray applied to 100 trees varying in size from 4 inches to 12 inches DBH, (DBH

is diameter measurement at 4.5 feet above ground level) to 3 common tree species in Florida, White Bay Magnolia (*Magnolia uirginiana*), Red Bay Magnolia (*Persea boeblingii*), and Crape Myrtle (*Lagerstroemia indica*) trees utilizing the basal bark spray application method.



Trees were dissected and examined 7 days after application. **Only the Pentra-Bark treatments demonstrated that any of the inert dye had penetrated through the bark periderm into the xylem and phloem tissues of the tree within 7 days.** The Pentra-Bark treated dye had been transported into the cambial zone of the trees and into the xylem and phloem vascular transport systems of the tree and then subsequently translocated throughout the tree as evidenced by the dye being observed visually unaided as high as 24 feet up into the canopy of the tree.

### Spray Application Rate:

Bark applications: add 3/4% to 1% or 0.75 to 1% by solution volume of Pentra-Bark to solution to be applied to tree trunk circumference

Foliar Application: add 1/4% to 1/2% or 0.25% to 0.5% by solution volume of Pentra-Bark to total foliar spray solution.

### Mixing Sequence:

Thoroughly clean spray tank prior to use

Fill tank 1/2 to 3/4 full of water, check water pH and adjust if needed add Pentra-Bark at recommended rate for the application agitate thoroughly to assure uniform mixing of product and water add recommended rate of pesticides, mix thoroughly, add additional water to bring to solution volume requirements for the specific application

Always read and follow label directions. Do not contaminate waterways or bodies of water with rinseate or overspray. Dispose of all containers in accordance with local, state and federal guidelines

The addition of a defoamer is recommended with repeated refills of the same spray tank. Continuous agitation is not needed or recommended once the products are in solution.

