

# roots®



## PHC® Injectable for Trees

**Mycorrhizal Fungi and beneficial bacteria  
for established trees and shrubs**

**Roots® PHC® Injectable for Trees** contains spores of beneficial endo- and ectomycorrhizal fungi in a mixed formulation of dry soluble soil amendments and beneficial rhizosphere bacteria, designed to be applied in liquid solution using soil injection equipment. Also included is Myconate® (formononetin), a patented stimulant of VAM fungi. \*Covered by US Patents 5,002,603; 5,085,682; 5,691,275; 5,981,775.

### DIRECTIONS FOR USE:

**Established Trees and Shrubs:** Mix one "A" packet and one "B" packet per 50 gallons of water to treat 1250 square feet. Agitate the mixture thoroughly before application. Spray tanks with good agitation are recommended. Inject the mixed product under cool pressure (10-200 psi maximum) into the upper 8 to 10 inches of the root zone with the use of a soil probe at a rate of 1-quart per injection on 2.5 to 3-foot centers. At a minimum, treat the root zone under the canopy and when possible, beyond the drip line. Avoid hot injection systems, as prolonged heat above 115° F can kill the spores. Not recommended as a soil drench.

**Highly Compacted Soils or Confined Root Areas:** Mix two "A" packets and two "B" packets per 50 gallons of water and inject 1 pint on 2.5 to 3-foot centers to treat 2500 square feet.

**B&B Transplants:** Mix one "A" packet and one "B" packet per 50 gallons of water, agitate thoroughly, inject root ball and outside edges under 150-200 psi max. with a soil probe at a rate of 1 quart per injection, following the chart below.

B&B APPLICATION RATES			
CALIPER	ROOT BALL DIAMETER*	RATE PER TREE	# OF INJECTION SITES
2 inch	24 inch	1.5 gallons	6
3 inch	36 inch	2 gallons	8
4-5 inch	48-50 inch	3 gallons	12
6 inch	60 inch	4 gallons	16
7 inch	70 inch	5 gallons	20
8 inch	80 inch	6 gallons	24

\*B&B root ball diameters are based on tree size according to American Nursery Standards.

**HEALTH AND SAFETY:** In case of allergic reaction(s), treat symptoms and contact physician. Avoid breathing dust or spray mist. Wash hands after handling. In case of injection seek medical attention.

### WARNING

Contains a phytoestrogen. Suspected of damaging fertility or unborn child by significant inhalation, ingestion, or skin absorption of undiluted product. Contains fine quartz sand, which is suspected of causing lung damage or cancer by prolonged/repeated inhalation.

Wear gloves and dust mask.

Wash hands after handling.

### KEEP OUT OF REACH OF CHILDREN

**STORAGE:** Store at temperatures between 40° and 90° F in a dry place away from direct sunlight.

### WARRANTY

**NOTE** To the extent consistent with applicable law, buyer assumes all responsibility for safety and performance if this product is not used according to the directions.

Not labeled for use on food crop sites.

Expiration Date:

**Net Wt. 3.5-Lbs. (1.59 kg)**

**FOURTEEN 4-OZ PACKETS (7 PAIRS DENOTED AS "A" AND "B")**



**LebanonTurf**

- Water dispersible formulation
- Apply to soil by liquid injection

### CONTAINS NON PLANT FOOD INGREDIENTS

### NOT A PLANT FOOD PRODUCT

### ACTIVE INGREDIENTS

**Ectomycorrhizal Fungi**.....3.9 Million spores/g  
3.9 Million spores/g Pisolithus tinctorius

**VA Endomycorrhizal (VAM) Fungi**..... 176 spores/g  
44 spores/g Glomus darum  
44 spores/g Glomus etunicatum  
44 spores/g Glomus intraradices  
44 spores/g Entrophospora columbiana

**Rhizosphere Bacteria**..... 56 Million cfu/g  
12.6 Million cfu/g Bacillus licheniformis  
12.6 Million cfu/g Bacillus megaterium  
2.8 Million cfu/g Bacillus polymyxa  
12.6 Million cfu/g Bacillus pumilus  
12.6 Million cfu/g Bacillus subtilis  
2.8 Million cfu/g Paenibacillus azotofixans

Humic acids (derived from Leonardite)..... 10.0%

Formononetin..... 0.2%

**MICROBIAL NUTRIENTS**.....68.9%

54.8% Maltodextrin

11.2% Seaweed Extract (derived from Ascophyllum nodosum)

2.7% Yeast Extract

0.2% Yucca plant extract (derived from Yucca schidigera)

**INERT INGREDIENTS**..... 20.9%

12.5% Non humic acid components of Leonardite

6.0% Kaolin clay

2.4% Polyethylene glycol (dust control additive)

Information regarding the contents and levels of metals in this product is available on the Internet at: <http://www.regulatory-info-lebsea.com>



For technical assistance and information about our products visit [www.LebanonTurf.com](http://www.LebanonTurf.com)

Manufactured by: Lebanon Seaboard Corporation • 1600 E. Cumberland St. Lebanon, PA 17042 • Made in the USA • 800-233-0628 • (717) 273-1685 • [www.LebanonTurf.com](http://www.LebanonTurf.com)

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