

PHC[®] Injectable for Trees

PHC Injectable for Trees is a combination inoculant containing mycorrhizal fungi (both Ecto- and VAM) and beneficial rhizosphere bacteria. It is formulated for application using standard soil injection equipment.

The mycorrhizal fungi in **PHC Injectable**:

- Increase absorption and transfer of water and mineral nutrients from the soil to the plants
- Help plants mitigate adverse environmental conditions such as drought, soil salinity, and extremes of soil pH.

PHC Injectable for trees also introduces six species of beneficial rhizosphere bacteria which improve soil fertility by:

- Fixing atmospheric nitrogen
- Solubilizing mineral phosphorus
- Biodegrading soil organic matter, releasing mineral nutrients

Finally, PHC Injectable contains a proprietary isoflavone (formononetin) that increases root colonization by native or introduced VAM fungi.

DIRECTIONS FOR USE

ESTABLISHED TREES AND SHRUBS: Mix one "A" packet and one "B" packet in either order per 50 gallons of water to treat 1250 square feet. Agitate the mix thoroughly before application. Spray tanks with good agitation are recommended. Inject the mixed product under cool pressure (150-200 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.

In highly compacted soils or confined rooting 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, or use granular PHC[®] Vertimulch.

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

APPLICATION RATES FOR B & B TREES			
Caliper	Rootball diam.*	Rate per Tree	# 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

Not recommended for use as a soil drench.

Mixed solution should be used within a 12 hour period.

SOIL INJECTABLE MYCORRHIZAL FUNGAL INOCULANT

GUARANTEED ANALYSIS OF SOIL AMENDING INGREDIENTS

ECTOMYCORRHIZAL FUNGI 1.78 Billion spores/Lb

1.78 Billion spores/Lb *Pisolithus tinctorius*

VA ENDOMYCORRHIZAL (VAM) FUNGI 80,000 spores/Lb

20,000 spores/Lb *Glomus clarum*
 20,000 spores/Lb *Glomus etunicatum*
 20,000 spores/Lb *Glomus intraradices*
 20,000 spores/Lb *Entrophospora columbiana*

MICROBIAL CONTENT 24 Billion cfu/Lb

4 Billion cfu/Lb *Bacillus licheniformis*
 4 Billion cfu/Lb *Bacillus megaterium*
 4 Billion cfu/Lb *Bacillus polymyxa*
 4 Billion cfu/Lb *Bacillus subtilis*
 4 Billion cfu/Lb *Bacillus thuringiensis*
 4 Billion cfu/Lb *Streptomyces azotofixans*

SOIL/PLANT AMENDING INGREDIENTS % by Weight

15.8% Humic acids (derived from Leonardite)
 0.2% Formononetin

MICROBIAL NUTRIENTS 68.9%

54.8% Maltodextrin
 11.2% Soluble seaweed extract
 (derived from *Ascophyllum nodosum*)
 2.7% Yeast extract
 0.2% Yucca plant extract

INERT INGREDIENTS 15.1%

6.7% Non Humic Acid components of Leonardite
 6.0% Kaolin clay
 2.4% Polyethylene glycol

STORAGE/SHELF LIFE

This product is stable in cool, dry storage conditions. See expiration date on package.

HEALTH AND SAFETY INFORMATION

- In case of allergic reaction(s), treat symptoms and contact physician.
- Avoid breathing dust or spray mist.
- Wash hands after handling.
- In case of ingestion, seek medical attention.
- **Keep out of reach of children.**

PACKAGING

7 x 8 oz Packet Pairs per Bag

TECHNICAL ASSISTANCE

For technical assistance, call 1-800-421-9051

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