

PHC® Vertimulch

PHC® Vertimulch is a combination inoculant containing mycorrhizal fungi (both Ecto- and VAM) and beneficial rhizosphere bacteria in a matrix of organic soil amendments and includes Terra-Sorb® hydrogels for improved water management. It is formulated for application using standard earth auger equipment, and is used in vertical mulching and root zone treatment of trees and shrubs. PHC® Vertimulch is a great treatment for trees suffering from environmental stress or those that are in decline. **PHC® Vertimulch:**

- Improves absorption of water and minerals from the soil
- Helps plants mitigate adverse environmental stressors such as drought, salinity, and extremes of soil pH

PHC® Vertimulch also introduces beneficial rhizosphere bacteria that improves soil fertility by:

- Fixing atmospheric nitrogen
- Converting insoluble mineral phosphorus to soluble phosphates

DIRECTIONS FOR USE

For best results inoculate within and just beyond (3 to 5 feet) drip line on 2.5 foot centers.

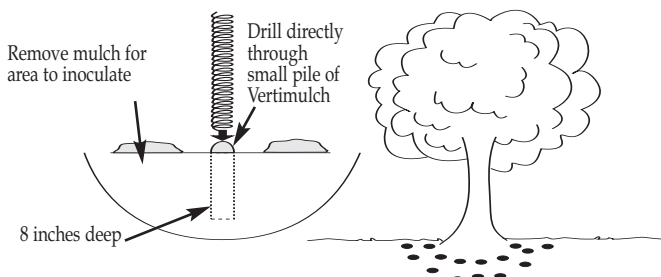
1. Remove mulch from immediate area to be drilled.
2. Apply 3 ounces PHC® Vertimulch directly onto soil forming a small pile.
3. Drill directly through small pile of PHC® Vertimulch to an 8 inch depth.
4. Mix product and soil by drilling up and down 2 or 3 times.
5. Soil and product mixture should be packed into the hole.
6. Replace mulch and water after inoculating.
7. Go to next site on 2.5 foot centers.

APPLICATION RATES: AUGER-CORING DRILL

For use with coring drill or auger. Apply 3 ounces of PHC® Vertimulch per 2 to 3 inch diameter hole, 8 inches deep on 2.5 foot centers. For premixed Vertimulch fill, mix 5 pounds of PHC® Vertimulch per cubic foot of soil. Drill holes as described above and fill with mix.

APPLICATION RATES: RADIAL TRENCHING

Mix PHC® Vertimulch with mulch or soil at a rate of 3 ounces (1 scoop) per square foot of trench. For example, for a 4 inch wide trench, 3 ounce of Vertimulch would treat 1 linear yard of trench. For wider or narrower trenches, adjust rate accordingly based on square foot coverage of the trench.



APPLICATION RATES: PREMIXED VERTIMULCH FILL:

Mix 5 pounds of PHC® Vertimulch per cubic foot of soil. Drill holes as described above and fill with mix.

VERTICAL MULCHING APPLIED MYCORRHIZAL FUNGAL INOCULANT

GUARANTEED ANALYSIS SOIL/PLANT AMENDING INGREDIENTS

Ectomycorrhizal Fungi.....50 Million spores/Lb
50 Million spores/Lb *Pisolithus tinctorius*

VA Endomycorrhizal (VAM) Fungi.....888 spores/Lb

222 spores/Lb *Glomus clarum*

222 spores/Lb *Glomus etunicatum*

222 spores/Lb *Glomus intraradices*

222 spores/Lb *Entrophospora columbiana*

Rhizosphere *Bacillus* spp......150 Million cfu/Lb

25 Million cfu/Lb *Bacillus licheniformis*

25 Million cfu/Lb *Bacillus megaterium*

25 Million cfu/Lb *Bacillus polymyxa*

25 Million cfu/Lb *Bacillus subtilis*

25 Million cfu/Lb *Bacillus thuringiensis*

25 Million cfu/Lb *Paenibacillus azotofixans*

SOIL/PLANT AMENDING INGREDIENTS.....% By Weight

Processed animal byproducts46.1%

Humic acids (derived from Leonardite)28%

Polyacrylamide hydrogel1%

Formononetin0.003%

INERT INGREDIENTS.....24.897%

15.1% Leonardite extract (other than humic acids)

6.5% Greensand

2.8% Mineral Oil

0.447% Maltodextrin

0.05% Cayenne pepper

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
- Wash hands after handling.
- In case of ingestion, seek medical attention.
- Keep out of reach of children.

PACKAGING

22-Lb box and 36-Lb pail

A 22 pound box treats 725 square feet and a 36 pound pail treats 1200 square feet (or 30 pounds per 1000 square feet).

TECHNICAL ASSISTANCE

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

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