

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. Vertimulch contains Myconate® which stimulates native and inoculated VAM fungal growth and colonization of roots.

PHC Vertimulch contains mycorrhizal fungi that can:

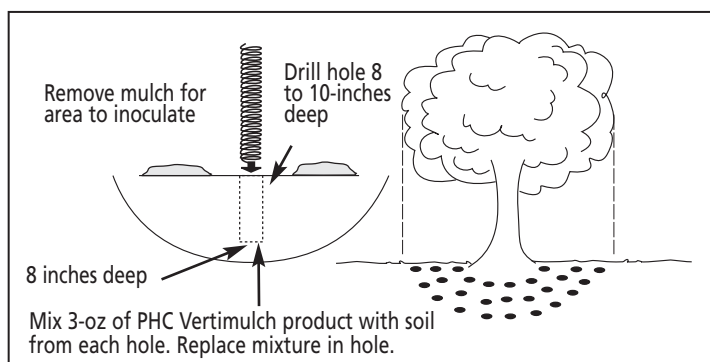
- Improve absorption of water and minerals from the soil
- Help plants mitigate adverse environmental stressors such as drought, salinity, and extremes of soil pH

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

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

DIRECTIONS FOR USE (AUGER-CORE DRILLING)

For best results inoculate within and just beyond (3 to 5 feet) drip line on 2.5 foot centers. Follow standard vertimulching procedures. Drill product into the soil at a rate of 3 ounces per hole, so that product is thoroughly mixed with the soil in the hole. Use an earth auger or similar drill with a 2.5 inch wide auger bit. Drill to a depth of about 8 to 10 inches. Drill numerous such holes to cover the entire area beneath the canopy, from the trunk outward to slightly beyond the drip line following a grid pattern with approximately 2.5 foot spacing between holes.



DIRECTIONS FOR USE: 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.

DIRECTIONS FOR USE: 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 OF SOIL AMENDING INGREDIENTS

ECTOMYCORRHIZAL FUNGI 50 Million spores/Lb

Pisolithus tinctorius50 Million spores/Lb

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*

MICROBIAL CONTENT 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 pumilus*
 25 Million cfu/Lb *Paenibacillus azotofixans*

SOIL/PLANT AMENDING INGREDIENTS % by Weight

Processed animal byproducts 46.1%
 Humic acids (derived from Leonardite)..... 28%
 Polyacrylamide hydrogel 1%
 Formononetin 0.003%

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

- 36 pound pail (treats 1200 sq ft)
 (Approximately 30-Lb per 100 sq ft)

TECHNICAL ASSISTANCE

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

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