

Product Information

Penterra™ is an effective soil penetrant and soil surfactant to keep soils from locking up. **Penterra** loosens soils, including clay. **Penterra** improves soil structure allowing water and oxygen to better reach plant roots by reducing the surface tension between the water and the soil. **Penterra** assists fertilizers and plants by increasing plant nutrient uptake and keeping the soil aerobic, thus increasing the amount of oxygen exchanged within the soil profile.

Application & Rates – Soil Water Movement

Apply 32 - 64 oz. of **Penterra** in a minimum of 50 - 80 gallons of water, per acre, per application, every two to four weeks (bi-weekly for putting surfaces) to increase water movement into and through the soil profile. It is suggested that **Penterra** be applied using spray nozzles that afford larger droplet sizes to increase soil/solution contact as well as decrease spray drift. In high organic or dense soils, it may be necessary to make several initial applications at 64 oz. per acre several days apart in order to obtain optimal water percolation. If a heavy rain event is forecast, apply 64 oz. per acre of **Penterra** prior to the event to minimize puddling of water. Do not use more than 64 oz. per acre at any one application. **Penterra** should be sprayed by itself. In case it needs to be applied with another product, please contact Geoponics or your sales representative for consultation of mixture and application. Never spray **Penterra** with other products that have a high salt index or could be considered phytotoxic to plants. It is preferred that **Penterra** be applied in early morning

(with dew present) and must be immediately watered in with 3 - 4 turns of irrigation head. Optimal application of **Penterra** would be the morning before a regular - heavy irrigation cycle.

Foliar Absorption

Penterra can be used to increase rates at which solutions can be absorbed into plant tissue (foliar fertilizers, systemic herbicides and the like). To obtain optimal absorption through the leaf tissue add 16 oz. of **Penterra** per acre along with other product in solution. Make sure to jar test **Penterra** with other products to be sprayed for compatibility. Do NOT exceed the 16 oz. per acre rate for foliar absorption applications.

Root Drench

Mix 16 oz. of **Penterra** per 100 gallons of water and drench soils to be treated. If applying under trees or shrubs, cover the complete area under the drip line of the tree/shrub with **Penterra** solution. If adding other products to solution, make sure to jar test for compatibility.

Dew and Frost Prevention

Apply 64 oz. per acre for effective dew suppression in turf. For frost prevention apply 64 oz. per acre within 48 hours of the foreseen frost event. Water in the application with 3 - 4 turns of the irrigation head. **Note:** It is suggested that flat fan nozzles be used in this application for better coverage.

NOTE: In water temperatures less than 55 degrees F it may be necessary to premix the **Penterra** in warm water prior to its addition to application equipment to assist with initial product solubility. Once pre-solubilized add mixture to tank and continue.



PENTERRA™

Soil Penetrant & Wetting Agent

SOILSURFACTANT.COM

NET CONTENTS:
☐ 55 GALLON DRUM
☐ 5 U.S. GALLONS
☐ 2.5 U.S. GALLONS

Earth-Friendly & Effective

For all types of turf, and
all types of soil

- Decreases surface tension
- Helps to loosen hard soils, even clay
- Activates soil organisms
- Extremely fast-acting
- Helps dry out wet areas
- Improves root growth by loosening soil
- Improves air and water penetration
- Helps save water & reduce plant stress
- Improves drainage & prevents soil erosion
- Improves soil porosity
- Economical to use
- Environmentally friendly



CONTAINER DISPOSAL

Triple rinse empty container and offer for recycling or disposal in accordance with federal, state, and local authorities.

CONDITIONS OF SALE

Seller warrants that products will be labeled as required under state and federal law and that they conform to the label description. Any non conformance must be reported in writing to Seller within thirty (30) days after purchase as a prerequisite to maintaining any claim against Seller. Buyer agrees to inspect all products purchased immediately upon delivery.

THE SELLER'S LIABILITY ON THIS WARRANTY IS LIMITED IN AMOUNT TO THE PURCHASE PRICE OF THE PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NOT WARRANTIES WHICH EXTEND BEYOND THIS STATEMENT.



GEOPONICSCORP.COM

3415 Radio Road, Number 105 • Naples, FL 34104
Tel: 877-ECO-GROW • 239-261-6500 • Fax: 239-692-8653

CAUTION
Keep Out Of Reach Of Children