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 60 - 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 seen several days apart in order to obtain optimal water percolation. If a heavy rain event is seen frost event. Water in the application mixture to tank and continue.

**Foliar Absorption**
Penterra can be used to increase rates at which solutions can be absorbed into plant tissue (fertilizer, 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 forecast 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.

**CONNECTIONS 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 nonconformance 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.

**CONDITIONS OF SALE**
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 no warranties which extend beyond this statement.

**Soil Penetrant & Wetting Agent**

- **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

**Product Information**

- **SOILSURFACTANT.COM**

- **Soil Penetrant & Wetting Agent**

- **SOILSANDWETTED.COM**

- **CAUTION**
  - Keep Out Of Reach Of Children

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

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

- **Contact Information**
  - Tel: 877-ECO-GROW • 239-261-6500 • Fax: 239-692-8653