SOIL MOIST ROOT DIP

Soil Moist Root Dip is formulated to inoculate bare-root stock prior to planting or shipping. Inoculation will promote new root development on newly planted trees and shrubs. Soil Moist Root Dip contains a diverse blend of seven species of healthy viable ectomycorrhizal propagules and seven species of healthy viable endomycorrhizal propagules that are adapted to a wide range of plants and habitat conditions. The formulation will provide the inoculated area to colonize on the newly planted stock in a wide variety of growing conditions. Soil Moist Root Dip – Ecto is for ectomycorrhizal host plants only and contains the same ingredients as Soil Moist Root Dip but without the endomycorrhizal fungi.

The mycorrhizal fungi colonize plant roots and extend far into the soil resource. The fungi improves the ability of the plants to utilize the soil resources. The fungi increases water and nutrient uptake by providing a larger root mass. The improvement in the plant / soil ecosystem increases plant establishment.

Each pound of Soil Moist Root Dip contains over 5 billion colony forming units (CFU) of bacteria in the biostimulant formulation. There are over fifty (50) strains of beneficial bacteria and soil microbes as well as natural plant extracts that promote root growth and formulation. Five strains of Trichoderma are included in the formulation to produce natural growth hormones and enhance disease suppression.

Soil Moist Fines™ (50-500 microns) water storing polymers are included in the formulation to reduce transplant stress and water maintenance while increasing the establishment of the newly planted stock. The small particle size of the Fines suspends the fungi and biostimulants in the slurry mix and increases the cohesion of them to the plant roots for colonization.

PRODUCT BENEFITS

- Improves soil and plant ecosystem
- Increases plant establishment and growth
- Reduces transplanting stress and plant loss
- Increases nutrient and water uptake
- Improves soil structure and porosity
- Reduces fertilizer use

COMPATIBILITY

Soil Moist Root Dip is effective on all types of plants and trees with the exception of Laurels, Rhododendrons and Azaleas. Soil Moist Root Dip – Ecto is effective on: Alder, Arbovitae, Arctostaphylos, Aspen, Basswood, Beech, Birch, Chestnut, Chinquapin, Eucalyptus, Fir, Hazelnut, Hemlock, Hickory, Larch, Linden, Madrone, Oak, Pecan, Pine, Poplar and Spruce.

Fungicides: Do not use fungicides for three weeks before and after applying Soil Moist Root Dip. The following fungicides should not be used: Ridomil, Benlate, Bravo, Daconil, PCNB, Bayleton, Dithane, Zineb and Ziram.

STORAGE

Store in a cool, dry location. Avoid direct sunlight and high temperatures. Reseal any remaining materials in their original container. Product shelf life is up to twenty-four months.
APPLICATION RATES

ECTO DIP
Each three ounce package will make three gallons of slurry. While agitating three gallon of water, slowly pour the contents of the package in. Continue to mix for a few minutes to get a homogeneous mixture. Let the product stand for 5 minutes. The longer the gel is allowed to stand, the tackier it will become. Dip or spray plant roots immediately before planting or shipping. Adjust the slurry thickness to insure adherence to the roots when dipping or spraying.

Three gallons of slurry will treat up to 1000 four inch seedlings. **At this application rate each seedling will receive a minimum of 1 million viable propagules of Pisolithus tinctorius and 100,000 viable propagules from the four species of Rhizopagon.**

ENDO AND ECTO
Each three ounce package will make one gallon of slurry. Follow the same methods for stirring as the ECTO DIP.

One gallon of slurry will treat up to 300 three to four inch seedlings. **At this application rate each 1 foot seedling will receive a minimum of 100 viable propagules of endomycorrhizal fungi derived from seven species.**

<table>
<thead>
<tr>
<th>Package Size</th>
<th>Amount of Water</th>
<th>Will Treat</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 oz. Ecto</td>
<td>3 gallons</td>
<td>up to 1000 seedlings</td>
</tr>
<tr>
<td>12 oz. Ecto</td>
<td>12 gallons</td>
<td>up to 4000 seedlings</td>
</tr>
<tr>
<td>5 lb. Ecto</td>
<td>80 gallons</td>
<td>up to 26,000 seedlings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Package Size</th>
<th>Amount of Water</th>
<th>Will Treat</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 oz. Endo/Ecto</td>
<td>1 gallons</td>
<td>up to 300 seedlings</td>
</tr>
<tr>
<td>12 oz. Endo/Ecto</td>
<td>4 gallons</td>
<td>up to 1200 seedlings</td>
</tr>
<tr>
<td>5 lb. Endo/Ecto</td>
<td>27 gallons</td>
<td>up to 8000 seedlings</td>
</tr>
</tbody>
</table>

Both products are packaged in premeasured three ounce packages and in twelve ounce resealable jars. Custom blends of root dip are available to meet any specific requirements. Special bulk package sizes are available, minimum quantities apply.