

FOR TREE SEEDLING PACKING AND PLANTING

DIEHARD™ Ecto Root Dip



"The Industry's First Complete Bare Root Treatment"

DIEHARD™ Ecto Root Dip is formulated as a bare root treatment with live beneficial mycorrhizal fungi to inoculate the roots of bare root plants before planting. It contains highly selected species of low host specificity ectomycorrhizal fungi that will quickly colonize the roots of bare root plants to provide the best possible conditions for the roots to become as effective during and after planting. The mycorrhizal inoculants are combined with humic acids, biostimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, to promote rapid root development. The mycorrhizal inoculant is managed with Horta-Sorb® SM which also protects the roots from drying out. The results are better survival and growth rates and less watering for all transplants.

Product Benefits

IMPROVES

Survival
Rooting
Flowering
Water Absorption
Nutrient Availability
Yields and Production
Client Satisfaction
& Goodwill

REDUCES

Plant Losses
Fertilizer Use
Need Of Pesticides
Heat Stress Damage
Irrigation Frequency
Losses From Drought
Conditions

Directions For Use

Mix the contents of each bag with water to form a mixture the consistency of thick gravy. Let stand for 15-20 minutes. Dip roots and plant, or package seedlings for shipment or storage. Adjust thickness of mixture to insure that the gel adheres to the roots when dipping. Product is formulated for small 12" - 18" seedlings. If larger seedlings are treated the number of seedlings treated per lb. is reduced.

Pkg. Size	Water To Mix	No. of Seedlings
3 oz.	5 Gallons	2,000
15 oz.	25 Gallons	10,000
25 lbs.	27 Gallons Per lb.	266,666

Non Plant Food Ingredients

<i>Ectomycorrhizal Fungi</i>	2,202,643 spores per gram centimeter to include: <i>Pisolithus tinctorius</i> (1,894,273) and <i>Rhizopogon</i> (308,370).
<i>Horta-Sorb® SM Water Gel</i>	88% <i>Acrylamide Copolymer made for agriculture.</i>
Humic Acids	3.5% derived from <i>Leonardite</i>
Soluble Yucca Extract	2% <i>Yucca schidigera</i>
Soluble Sea Kelp Extract	2.2% <i>Ascophyllum nodosum</i>
<i>Trichoderma</i>	31,982 CFU's per gram Genus <i>Trichoderma</i> : <i>Trichoderma hamatum</i> , <i>Trichoderma harzianum</i> , <i>Trichoderma viride</i> , <i>Trichoderma reesei</i> .
<i>Bacillus, Pseudomonas & Streptomyces</i> Species	25,513,304 CFU's per gram Genus Bacillus : <i>B. megaterium</i> , <i>B. subtilis</i> , <i>B. amyloliquefaciens</i> , <i>B. azotoformans</i> , <i>B. licheniformis</i> , <i>B. pumilus</i> , <i>B. Firmus</i> , <i>B. coagulans</i> , <i>Geobacillus stearothermophilus</i> , and <i>Paenibacillus polymyxa</i> , <i>Paenibacillus Durum</i> . Genus Pseudomonas : <i>P. putida</i> , <i>P. fluorescence</i> , <i>P. Aureofaceans</i> . Genus Streptomyces : <i>S. lydicus</i> , <i>S. griseus</i> , <i>S. coelicolor</i> .
Root Promoting Vitamin	Biotin, Folic acid, B, B2, B3, B6, B7, B12, C and K
Amino Acids (Protein)	Animal and plant proteins
Fulvic Acid	Plant-derived mineral

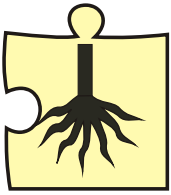
Compatibility

Species: Alder, Arborvitae, Birch, Hazelnut, Pine, Chestnut, Hickory, Spruce, Aspen, Chinquapin, Larch, Basswood, Fir, Oak, Beech, Hemlock, Pecan, Eucalyptus and Willow.

Fungicides: Non-systemic fungicides normally have no effect. Foliar applied fungicides normally have no effect. Systemic fungicides may be applied 2 weeks before or after use of product. Fungicide use according to label instructions do not extinguish mycorrhizae, they only inhibit development for a short period of time.

Storage & Handling

Store in a cool, dry place. Avoid high temperatures and direct sunlight. Product shelf life is up to 24



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Health & Safety

- Inhalation If dusty conditions exist, wear a dust mask.
- Ingestion Drink large amounts of water, induce vomiting, and seek medical attention.
- Eyes Flush with large amounts of water.
- Safety Product becomes very slippery when wet.

Limited Warranty: All information contained herein is offered in good faith. There are no warranties of merchantability of fitness for a particular purpose which extend beyond the information contained herein. Our liability is limited to replacement of any product which does not meet these specifications.

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