



FOR ESTABLISHED TREES AND SHRUBS

DIEHARD™ Root Reviver



“The Industry's First Complete Vertimulch Inoculant”

DIEHARD™ Root Reviver is formulated as a preparation to inoculate the roots of tree and shrubs with live beneficial mycorrhizal fungi when planting. It contains highly selected endo and ectomycorrhizal fungi that will quickly colonize the roots of trees and shrubs to provide the best possible condition for the roots to grow and extract from the root zone water and nutrients. The mycorrhizal fungi are combined with humic acids, biostimulants, beneficial bacteria, soluble sea kelp, yucca plant extracts, amino acids, and vitamins to promote rapid root development. The formulation Horta-Sorb® water management gel is added to slow release all soluble components. The product is packaged in 4 lb., 10 lb. and 25 lb. units.

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

Compatibility

Species: All plants and shrub species except Rhododendrons, Azaleas, Heather, Blueberries, and Laurels. (These associate with ericoidmycorrhizae.)

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.

Non Plant Food Ingredient

GUARANTEED ANALYSIS

Endomycorrhizal Fungi	6.8 Propagules per cc. <i>Glomus mosseae</i> (1.37), <i>Glomus intraradices</i> (1.37), <i>Glomus fasciculatum</i> (1.37), <i>Glomus dussii</i> (0.68), <i>Glomus clarum</i> (0.68), <i>Glomus deserticola</i> (0.68), <i>Glomus microaggregatum</i> (0.68).
Ectomycorrhizal Fungi	300,000 spores per cc to include: <i>Pisolithus tinctorius</i> (258,000) and <i>Rhizopogon</i> (42,000).
Nitrogen Fixing, Phosphate solubilizing and growth promoting bacteria	400,000 CFU's per cc to include: <i>Genus Bacillus</i> (32 species), <i>Genus Pseudomonas</i> (2 species), <i>Genus Streptomyces</i> (2 species).
<i>Trichoderma</i>	600,000 CFU's per cc to include: <i>Genus Trichoderma</i> (6 species), <i>Gliocladium virens</i> (2 strains), <i>Trichoderma harzianum</i> (2 strains), <i>Trichoderma Viride</i> (2 strains)
Humic Acids	41% derived from <i>Leonardite</i>
Sea Kelp Extract	19% <i>Ascophyllum nodosum</i>
Yucca Plant Extract	1% <i>Yucca schidigera</i>
Horta-Sorb® MD Water Gel	Minimum 5% copolymer
Particle Size	1.0 mm to 2.0 mm.
Percent Soluble	0.05%
Absorption Rate	300-400 times in distilled water

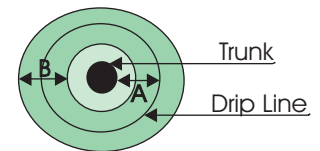
OTHER INGREDIENTS

Root Promoting Vitamin	B, B2, B3, B6, B7, B12, C, K, Biotin, Fulvic Acid
Amino Acids	Animal and plant proteins

Directions For Use

Established Trees: Make holes in a 2 ½ to 3 foot grid pattern. Apply 3 to 6 oz. per hole (2" wide x 8" deep) in a 3 ft. grid. Mix product with soil removed in the top 6-8" of hole. The following placement is suggested:

Method: Measure from the trunk to the drip line (A). Divide this number by 2. Measure from the drip line this amount towards the tree and outward from the drip line and treat this area (B) using a grid pattern.



Stress Recovery - Small and newly planted trees and shrubs: Make holes around the root ball (4 holes per inch caliper). Apply 3 to 6 oz. per hole. Mix product with soil removed. Fill top 6-8" of hole with mixture and water in.

Transplants: Apply (2 to 4) 6 oz. scoops per inch caliper or per foot diameter root ball and mix with backfill in the upper 8" of planting hole making sure inoculant is adjacent to the root ball.



DATA SHEET #4

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DIEHARD™ Root Reviver



“Stimulates root growth naturally”

Storage & Handling

Store in a cool, dry place. Avoid high temperatures and direct sunlight. Product shelf life is up to 18 months..

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.

DIEHARD™ Inoculants

DIEHARD™ Transplant

Contains live spores of endo (VA) and ectomycorrhizae (Pt) combined with humic acids, nitrogen fixing, phosphorus solubilizing and growth promoting beneficial bacteria, soluble sea kelp, natural surfactant from yucca plant extracts, and Horta-Sorb® MD. This is a complete transplant preparation to inoculate landscape trees and shrubs with live beneficial mycorrhizae fungi, "energize" the soil, and provide natural nutrients to trees and shrubs when planting.

DIEHARD™ Palm

Endomycorrhizae, beneficial bacteria, *Trichoderma*, plus all the "goodies" for palms. Formulated by some of the top palm experts in the country.

DIEHARD™ Flower Bed

Endomycorrhizae, beneficial bacteria, *Trichoderma* plus a light portion of Horta-Sorb® MD to slow release the soluble components of the formulation.

DIEHARD™ Root Dips

Endo and ectomycorrhizae, beneficial bacteria, soluble sea kelp, yucca plant extracts, *Trichoderma*, and Horta-Sorb® SM water management gel to protect the roots, slow release all soluble components of the formulation, and boost survival. Available with endo and ecto or ectomycorrhizae alone.

DIEHARD™ Injectables

Dry, soluble formulations of Endo and Ectomycorrhizae, beneficial bacteria, soluble sea kelp, soluble yucca plant extracts, soluble humic acids, *Trichoderma*, and plant vitamins. Available with endo and ecto or ectomycorrhizae alone.

DIEHARD™ Drenches

A dry, water soluble root growth stimulant containing humic acid extracts, soluble sea kelp, yucca plant extracts, amino acids and nitrogen fixing, phosphate solubilizing and growth promoting bacteria to inoculate plants at the nursery level with beneficial mycorrhizae prior to out planting or stepping up at the nursery.

DIEHARD™ BioRush®

A dry, water soluble root growth stimulant containing humic acid extracts, soluble sea kelp, yucca plant extracts, *Trichoderma*, amino acids and nitrogen fixing, phosphate solubilizing and growth promoting bacteria to "energize" the microbial activity in the ground and promote cell division and lateral bud development as well as delay the aging process of plant tissue.

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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