























Description	Main Use	When to Apply	How to Apply	Features and Benefits	Application Rate*	Technology				
CHELATED MICRONUTRIENT PRODUCTS										
Fe 8® 0-5-8	Trees, Shrubs, Turf	Growing season	Spray, drip, fertigation, foliar, or soil injection	Green-up without rapid growth; Long lasting green-up	1 fl. oz. per 1,000 sq. ft.					
AgriPlex	Trees, Shrubs	Transplanting	Spray or drench	Quick visual response without rapid growth; Longest lasting green-up	1 fl. oz. per 1,000 sq. ft.					
BIOSTIMULANT PRODUCT (VITAMINS)										
Roots Concentrate	Trees, Shrubs, Flowers, Turf	Growing season	Spray or drench	Rapid root growth; Quicker regeneration for seedlings, cuttings, and transplants	1 fl. oz. in 3 qt./200 sq. ft.					
dryROOTS® 3-3-3	Trees, Shrubs, Flowers, Turf	Spring, Summer or Early Fall	Planting or top dressing	Prevents transplant loss; Improves soil structure	Garden: 5 lb./100 sq. ft. Turf: 10 lb./1,000 sq. ft.					
COMBINATION PRODUCTS- MYCORRHIZAL FUNGI & BENEFICIAL BACTERIA										
1>2>3® PreMix Plus	Turf	Growing season	Spray or drench, then water in	Greater root mass development; greener color without rapid growth	6 fl. oz. per 1,000 sq. ft.					
endoROOTS® Fine 3-3-4	Turf	At planting or after aeration	Spreader, then brush or work into holes	Speeds up grow-in and establishment; Increases turf density	10 lbs. per 1,000 sq. ft.					
M-ROOTS® 3-3-3	Trees, Shrubs	Spring, Summer or Early Fall	Mix with soil at planting or Auger Drill	Increases transplant survival, water and nutrient absorption; Increases tolerance to environmental extremes	Gardens: 5 lb./100 sq. ft. Turf: 10 lb./1,000 sq. ft. Tree: 4 oz./ drill hole					
Healthy Start® 3-4-3	Trees, Shrubs, Flowers, Turf	Spring, Summer or Early Fall	Planting or top dressing	Restores natural fertility to disturbed soils; Adds rich organic matter; Will not burn	25 lb./1,000 sq. ft.					
BioPak® Plus 3-0-20	Trees, Shrubs, Flowers, Turf	Spring, Summer or Early Fall	Spray, drench or soil inject	Quick recovery from stress; Improves rot function without top growth	1 lb./10,000 sq. ft.					
Tree Saver®	Shrubs, Trees	At Planting	Mix with backfill	Reduces transplant shock & loss rates; Improved absorption of water and minerals	3 oz. per inch trunk diameter					
Fertilizer for Trees 11-22-22 Fertilizer for Trees SRN 11-22-22 Fertilizer for Trees 27-9-9	Trees, Shrubs	Spring, Summer, and Fall (11-22-22 and 11-22-22 SRN)	Drench or Injection	Chemically-based elements address trees; immediate nutritional needs; Beneficial microbes sustain fertility over the long-term	8 lbs. per 1,250 sq. ft. beneath the canopy					

* Application varies depending on use.

 Mycorrhizal Fungi  Beneficial Bacteria  Biostimulants  Chelated Micronutrients



The ROOTS® brand of biologically enhanced nutrients merge nature and technology to offer leading-edge solutions for turf and plant care. ROOTS products provide an all-in-one nutrient delivery system that feeds the plant while enhancing the biological life of the soil and plant ecosystem. Turf professionals, landscapers, growers, arborists, and nursery growers trust ROOTS to provide consistent color response, improved turf density and enhanced root mass.

Mycorrhizal Fungi



Mycorrhizal fungi expand the root zone and allow plants the ability to take in necessary water, nutrients and micronutrients that would otherwise not be available. Plant survival and performance can be improved by incorporating a diverse population of mycorrhizal fungi at planting and transplanting time. Several ROOTS products contain Myconate®, a proprietary, patented stimulant of VAM mycorrhizal fungi. No other mycorrhizal products contain this unique compound that stimulates both introduced and native mycorrhizal fungi to rapidly colonize plant roots.

Beneficial Bacteria



Forest soils are teeming with beneficial microbes, which contribute to the growth, health, and nutrition of forest plants. Unfortunately, many landscape soils often lack this biological diversity. Several ROOTS products deliver various species of beneficial bacteria selected for their ability to enhance soil fertility and plant nutrition, improve soil structure and, in some cases, protect from disease (i.e., EcoGuard). In natural forest soils and constructed landscapes, microbes are not just beneficial; they're essential to healthy plant growth.

Biostimulants



Sea plant extracts and meals are natural amendments for increasing the organic content of soil and improving overall stress tolerance. Seaweed products are completely biodegradable and provide an excellent nutrient source for beneficial rhizosphere bacteria to multiply and become established in the root zone. These natural products fit the "Naturally Better" philosophy of our ROOTS brand.

Humic acids are powerful organic chelators that solubilize important minerals needed by plants. Humic acids help release bound mineral nutrients and hold them in soluble form where they are readily available for uptake by plant roots.

Chelated Micronutrients



Micronutrients are essential to the overall health of the plant, but are oftentimes tied up due to the pH of the soil or water being used to apply the products. Several ROOTS products are manufactured using chelation a process that allows micronutrients to stay soluble for a period of time and thus allow plant uptake.

Nutrient Delivery Systems

Our biological technologies, combined with specialized plant nutrients, provide a highly effective nutrient delivery system for plant roots. Improved nutrient availability and distribution, especially during times of deficiency or stress, are important to a plant's performance and health. Our naturally better products create sustainable landscapes that can cost less, provide more value, and last longer.



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