manufactured by

BIOHUB SOLUTIONS

BioForce MicroPrime

Microbial Amendment for Turf & Amenity Horticulture



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BioForce MicroPrime

Product Overview

BioForce MicroPrime contains selected strains of beneficial fungi in *Trichoderma harzianum*, *Trichoderma hamatum*, *Trichoderma koningii* and *Rhizopogan* spp. in combination with four beneficial bacteria *Bacillus megaterium*, *Bacillus subtilis*, *Paenibacillus polymyxa* and *Pseudomonas fluorescence*.

When applied to turf or incorporated into other growing media, BioForce MicroPrime will establish a strong beneficial microbial population that will colonise at the root zone to provide an improvement in the growing environment for plant roots.

More specifically, this enhanced microbial activity will stimulate root initiation and produce a more vigorous root system and promote better utilisation of applied nutrients. The biology will also assist in protecting against plant pathogens to give turf and amenity plants more resistance to adverse conditions and abiotic stresses.

BioForce MicroPrime is a 3-part soil microbial inoculant composed of Part 1: BioBase, the microbial inoculant blend, Part 2: a liquid humic and fulvic acid material derived from American Leonardite to support microbial inoculation and growth and Part 3: a seaweed concentrate extracted from *Ecklonia maxima* to support root development and microbe interaction.

The benefit of having a 3 part solution, allows the product to maximise output of the 3 individual materials. This also improves storage and stability to ensure field performance.

Key Benefits of BioForce MicroPrime

> Formulated in Australia, ensuring good shelf life and stability.
> Enhances root vigour, growth and health.
> Concentrated forms of 3 Trichoderma species with the added benefits of 4 beneficial bacteria and 1 beneficial fungal species.
> Contains Trichoderma harzianum – a well researched Trichoderma spp. in turfgrass.
> Assists the plants immune system, produces antibiotic materials that stifle plant pathogen growth. It also competes against plant pathogens for space and nutrients.
> Improves the overall plant growing environment.
> Increases soil oxygenation.
> Assists organic matter turnover.
> Aids nutrient uptake and availability. Fixes free nitrogen from the atmosphere. Cycles Potassium and unlocks Phosphorus and trace elements.
> Useful in an organic program approach in sensitive environmental situations.
> Ideal for use in both turf and amenity plantings.
> Safe for the environment, user and the public. No re-entry issues unlike traditional chemistry.

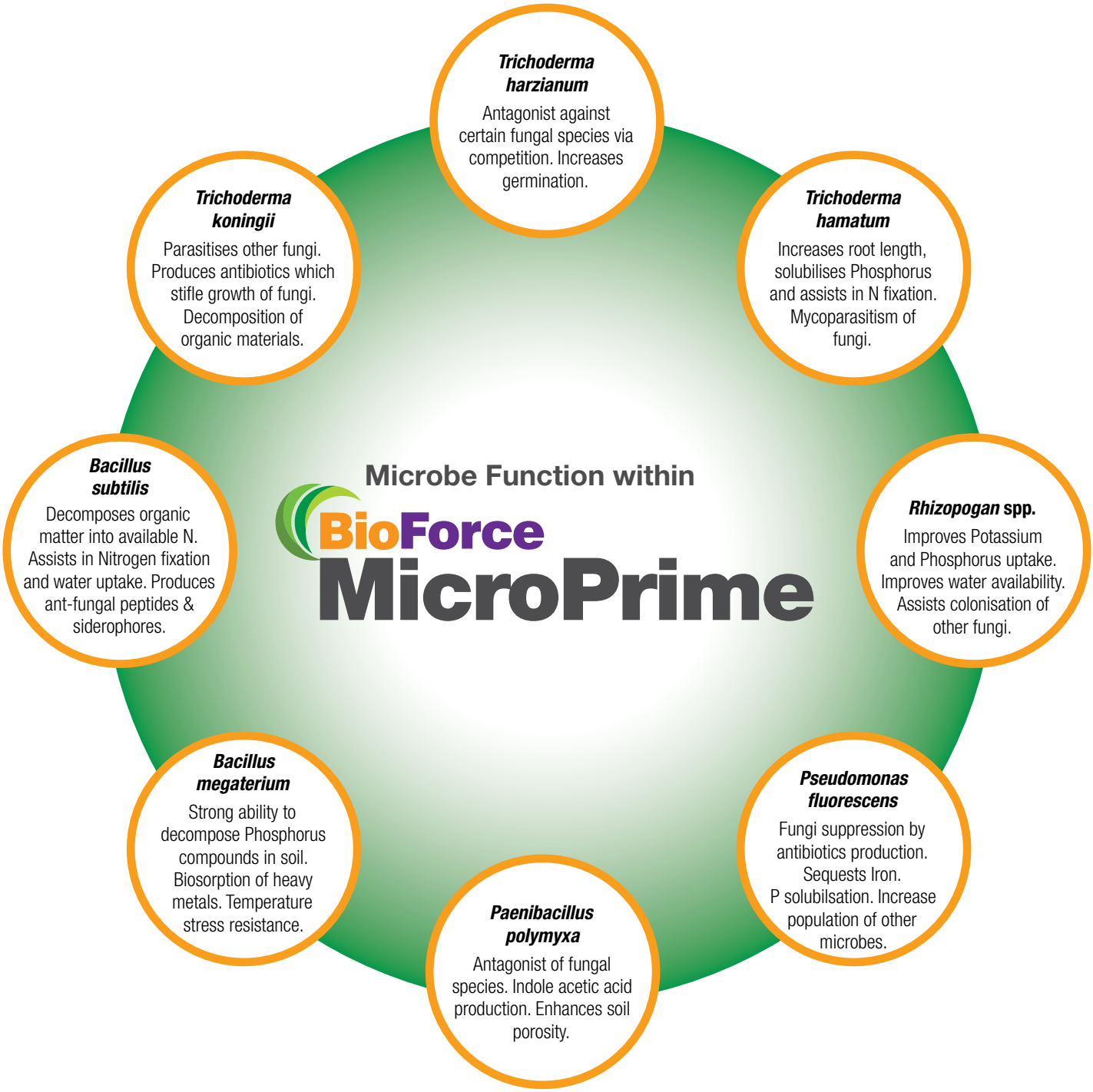
Concentrated form of Microbial Amendment

BioForce MicroPrime is a concentrated form of biology for turf and ornamentals. It contains a minimum of 13.5 billion CFU's of collective beneficial fungi and bacteria. The beneficial microbes within the product are as follows:

Microbe	Microbe Type
Trichoderma harzianum	Fungi
Trichoderma hamatum	Fungi
Trichoderma koningii	Fungi
Rhizopogan spp.	Fungi
Paenibacillus polymyxa	Bacteria
Bacillus subtilis	Bacteria
Bacillus megaterium	Bacteria
Pseudomonas fluorescens	Bacteria



Formulated in Australia



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BioForce MicroPrime – Application Details

Application Method	Rate of Application	Mixing Instructions	Application Intervals
Apply through boom spray, fertigation, or overhead irrigation. Don't apply when conditions are extremely hot. Best applied in temperatures in the range of 5-25^{0}C.	Mix 1L of Part 1: BioForce BioBase + 1L of Part 2: BioForce Microbe Support + 1L of Part 3: BioForce Plant Support per hectare. Each 6L carton of BioForce MicroPrime will treat 2 hectares.	1. Half fill tank with required volume of water. 2. Add the required amount of BioForce MicroPrime. 3. Fill the remainder of tank with water and maintain agitation.	To achieve best results BioForce MicroPrime needs to be applied in a programmed approach. Ideally, applications should be undertaken at 4-8 weekly intervals, with key emphasis being placed on applications in autumn and spring. After application of fungicides the biology is sensitive to, re-application is recommended to restore concentrations. The biology can be UV sensitive, and as a result incorporation into the soil via irrigation following application is important. Application can be made any time of year as long as soil temperatures and moisture levels are adequate.

BioForce MicroPrime contains living fungi and bacteria and is sensitive to very high salt contents, chlorine based liquids and a number of fungicides including propiconazole, tebuconazole and carbendazim. BioForce MicroPrime may be compatible with a range of herbicides and pesticides. It is important to note that physical compatibility does not guarantee product efficacy.

BioForce MicroPrime – Product Compatibility Guide

Compatability	BioForce MicroPrime	Code	Comments
Fungicides			
Thiram	Compatible	C	Limited impact upon population. Do not tank mix with BioForce MicroPrime.
Captan	Incompatible	NC	Allow 7 days before re-treatment with BioForce MicroPrime.
Mancozeb	Compatible	C	Allow 7 days before re-treatment with BioForce MicroPrime.
Thiophanate methyl	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Carbendazim	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Tebuconazole	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Propiconaozle	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Chlorothalonil	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Metalaxyl-M	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Iprodione	Compatible	C	Limited impact upon population.
Fosetyl-Al	Compatible	C	Limited impact upon population. Do not tank mix with BioForce MicroPrime.
Azoxystrobin	Compatible	C	Limited impact upon population.
Herbicides			
Glyphosate	Compatible	C	Limited impact upon population.
Pendimethalin	Incompatible	NC	Allow 14-21 days before re-treatment with BioForce MicroPrime.
Insecticides			
Imidacloprid	Compatible	C	Limited impact upon population.
Chlorpyrifos	Compatible	C	Limited impact upon population.
Others			
Chloride based liquids	Incompatible	NC	Allow 7 days before re-treatment with BioForce MicroPrime.
Copper based liquids	Incompatible	NC	Allow 14 days before re-treatment with BioForce MicroPrime.
Quaternary Ammonium	Incompatible	NC	Allow 7 days before re-treatment with BioForce MicroPrime.
C = Compatible	NC = Not Compatible		







Storage and Stability

Do not store product in direct sunlight.

Do not store product in temperature below 5^{0}C.

BioForce™ is a trademark of Indigo Specialty Products Pty Ltd

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