MycoMaxima Professional®

Construction Application Guide

For landscapes containing plant material requiring both Endo (VAM) and Ecto inoculation of Mycorrhizal spores

Protocol and products required for best seed and root inoculation success of mycorrhizal products include the follow items:

TerraPro ®

- A Humus based soil biology primer with a rich concentration of Humic Acids as the active ingredient. Chelated onto the Humic Acid is a broad spectrum of major and minor mineral nutrients.

Protein Crumblies ®

- A natural method of providing a slow release nitrogen that is needed to instigate the Soil Food Web. Also provides all of the nitrogen budget for plants until the soils free living nitrogen fixing bacteria and other trophic levels of nitrogen flow can sustain the sites plants.

MycoMaxima Professional ®

- Is a seed and root inoculant of a beneficial Mycorrhizal fungus that improves the host plants ability to uptake water and mineral nutrients from the soil. MycoMaxima contains a blend that will associate with the majority of plant species found in the Northern Hemisphere.

Suggested Application Guidelines:

TerraPro ® Commercial Grade

Container Size: .6 cubic feet, approximately 5 gallons (minimum recommended coverage area per bag = 1000 sq. ft.) It's strongly recommended to apply this product over the entire landscape and not just around the individual plants. Use as a surface treatment over the entire landscape. Can be mixed into the top inch or so of soil or applied with a hydromulched with seed, wood fiber mulches and tackifiers.

.**Apply at 44 bags per acre (approximately 1400 total pounds)**

Protein Crumblies ®

Container Size: .6 cubic feet, approximately 5 gallons (minimum recommended coverage area = 2000 sq. ft.). It's strongly recommended to apply this product over the entire landscape and not just around the individual plants. Apply as a surface treatment, but can also be applied with the Ag Grade TerraPro using a hydromulched procedure.

Apply at 22 bags per acre.

If you can't treat the whole landscape it's recommended that you treat a minimum zone around each plant as illustrated below.

Trees:

15 gallon to 2" caliper and larger

- Treatment zone = 10 ft. X 10 ft = 100 sq. ft. each.
- TerraPro - **one bag will treat 10 trees**
- Protein Crumblies **– one bag will treat 20 trees**

5 gallon shrubs and trees

- Treatment zone = 5 ft X 5 ft = 25 sq. ft. each.
- TerraPro - **one bag will treat 40 plants**
- Protein Crumblies **– one bag will treat 80 plants**

Example of ***TerraPro*** and ***Protein Crumblies*** being applied to the area around a 5 gallon size plant. Both products can be applied to the surface and watered in.

1 gallon woody, perennial and annual plants

- Treatment zone = 2 ft X 2 ft = 4 sq. ft. each.
- TerraPro - **one bag will treat 250 plants**
- Protein Crumblies **– one bag will treat 500 plants**

MycoMaxima Professional Blend ®

Container Size: 5 gallon pail (provides 80 cups)

The following application rates apply to all plants including annuals, perennials and woody plants such as shrubs and trees. The treatment zone is the area the plant has the potential to grow roots into in the first growing season, if they are being watered and cared for properly.

Application Method for Trees and Shrubs

Apply next to the root ball as backfill is being applied It is important to apply the recommended amount per plant (see application chart at the end of this document) evenly to cover the whole circumference of the root ball while making sure product is in physical contact with the root ball while backfilling. Begin by placing product at the base of the root ball of containerized plants or balled and burlapped trees and continue to add product as you backfill the planting site until hole is filled.

Trees:

15 gallon to 2" caliper and larger

- Inoculant amount = 4 cups each.

5 gallon shrubs and trees

- Inoculant amount = 1 cup each.

1 gallon woody, perennial and annual plants

- Inoculant amount = ¼ cup each.

More on MycoMaxima Professional Blend ®

MycoMaxima® is a mycorrhizal inoculant concentrated for ease of application and for providing a desirable spore count of the mycorrhizal species most commonly found in landscapes. This includes all grass species, woody plants including conifers, oaks, pecan and ornamental shrubs. Mycorrhizal fungus have been proven in research to improve the uptake of phosphate and other minerals normally not available to plants. This is essential for good plant nutrition! They have also been proven to improve the drought tolerance of plants by finding and delivering water to the host plant that the plant cannot reach on its own. Research has shown that the size of the Mycorrhizal hyphae network is at least ten-fold larger than the roots of the host plant, therefore extending the contact the plant has with the soil enabling it to reach water and mineral nutrients it could not otherwise reach. Other applications for **MycoMaxima** include erosion control, mine reclamation, forest fire rehabilitation, highway re-vegetation, etc.

See Application Rate Chart on the next page

Application Rates per Plant Size			
Container Size		***MycoMaxima***	
		ml	cups
Plugs		15	1/16
4" Pot		30	1/8
# 1 (gallon)		65	1/4
# 2 (gallons)		125	1/2
# 5 (gallons)		250	1
# 10 (gallons)		375	1 1/2
# 20 (gallons)		500	2
Tree Caliper		***MycoMaxima***	
	caliper in mm	ml	cups
1.0 - 1.5”	25-40 mm	500	2
1.75 - 2.0”	41-50 mm	750	3
2.25 - 2.5”	51-65 mm	1 000	4
2.75 - 3.0”	66-75 mm	1 250	5
3.25 - 4.0”	76-100 mm	1 500	6
4.25” +	100 mm +	1 875	7

Soil Secrets LLC
Mailing Address: 9 Gilcrease Road, Los Lunas New Mexico 87031
Email: soilsecrets@aol.com Phone: 505 866-SOIL (7645)