

## FAQ / MYCORISE® PRO



### WHAT IS MYCORISE® PRO?

MYCORISE® PRO is a beneficial vesicular-arbuscular endomycorrhizal (VAM) fungus (*Glomus intraradices*) that is found naturally in soils around the world. It forms an association, or symbiosis, with the roots of many plants including many vegetables, ornamental greenhouse plants, fruits, trees and shrubs.

Symbiosis between VAM fungi and plant roots begins when VAM fungal spores germinate and the emerging threadlike structures, called hypha (hyphae-plural), penetrate the root surface. VAM fungi partially live within the cells of the root cortex and produce additional hyphae that extend out into growing medium and soil. The hyphae act as an extension of the root system and help the plant acquire water and nutrients (particularly phosphorus, copper, zinc and manganese). In return, the plant provides carbohydrates for the VAM fungus.

### BENEFITS OF MYCORISE® PRO®

- More efficient acquisition of water and nutrients (particularly phosphorus, copper, zinc, and manganese).
- Increased resistance to stresses related to transplanting, nutrition and drought.
- Improved plant survival after outplanting into gardens and field soil.
- Increased crop vigor, plant quality and quantity of flowers/fruit.

\* Benefits vary among different plant species and cultivars.



### WHICH CROPS BENEFIT?

Most crops benefit including greenhouse ornamentals, vegetable transplants, perennials, containerized nursery crops, as well as fruit and nut crops. It takes 3-4 weeks for plant roots to be fully colonized by

MYCRORISE® PRO. After this time, plants will begin to display slightly improved growth. Most plant benefits are realized towards the end of the crop cycle. Improved overall growth is most evident when plants are subjected to stressful growing conditions and/or transplanted outdoors into soil.

Short-term greenhouse crops, such as bedding plants, plugs and potted plants may not display growth benefits within the crop cycle; however, customers that purchase these plants for transplanting into gardens, planter boxes etc. will recognize superior plant performance and improved overall growth.

## WHAT IS MYCORISE® PRO?

All PRO-MIX Professional formulations contain MYCRORISE® PRO as a standard component. PRO-MIX with MYCRORISE® PRO is the same PRO-MIX formulation you know and trust with the addition of the MYCRORISE® PRO inoculum. All products are packaged in Bulk, compressed and loosefill sizes and designated with the MYCRORISE® PRO logo on the packaging.

## WHAT CROPS ARE NOT COLONIZED BY MYCORISE® PRO?

Family	Common Names
Betulaceae	Birch, Hazelnut
Caryophyllaceae	Carnation, Cerastium, Dianthus, Gypsophila, Lychnis, Saponaria
Chenopodiaceae	Beet, Kochia, Spinach, Swiss Chard
Crucifereae	Broccoli, Brussel Sprouts, Cabbage, Candytuft, Cauliflower, Cole,
Hesperis	Lobularia, Lunaria, Matthiola, Rock Cress, Radish, Rutabaga
Crassulaceae	Sedum, Sempervivum
Ericaceae	Azalea, Blueberry, Rhododendron
Fagaceae	Beech, Oak
Leguminosae	Lupine*
Orchidaceae	Orchids
Pinaceae	Fir, Pine, Spruce
Salicaceae	Poplar, Willow

\*Most plants in Leguminosae family are colonized by Mycorise® PRO.

## STORING PRO-MIX WITH MYCORISE® PRO?

- Avoid storage of product at temperatures above 110°F (43°C).
- MYCRORISE® PRO will survive up to 2 years, however best results are achieved when product is used within 9 months after manufacturing date.

## COMPATIBILITY IN THE GREENHOUSE WITH YOUR GROWING PRACTICES

- Use chemicals that have been tested and approved for use with MYCRORISE® PRO.
- Use PRO-MIX 'FPX' or PRO-MIX 'PGX' for plugs and container sizes less than 60 cc (3.67 in<sup>3</sup>).

## **MYCORISE® PRO PLANTS TRANSPLANTED OUTDOORS**

- The benefits of MYCRORISE® PRO will continue for plants transplanted outdoor into soil.
- Use chemicals approved for use with MYCRORISE® PRO.

## **CONTINUED BENEFITS IN FIELD SOIL**

MYCRORISE® PRO will continue to colonize plant roots throughout the soil as long as the host plant lives. Once the plant dies or if the soil is tilled the fungal hyphae will die and resting spores will remain. MYCRORISE® PRO can recolonize new plants in the next season, however spore concentration may not be adequate for benefits to be fully realized. It is best to start crops in PRO-MIX with MYCRORISE® PRO before transplanting into the field for optimum results.