

BIOSYM-ENDO PRODUCTSHEET



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BIOSYM-ENDO is broken expanded clay biologically activated by immobilized propagules of naturally occurring AM-fungi, vesicular - arbuscular mycorrhizal fungi (Endo-Mycorrhiza). The fungi hyphen grow with tree-like branched hyphen endings in the bark cells. These hyphen endings are organs through which the symbiotic metabolism fungus - plant takes place. This secondary root system increases until seven times the plant root system. These fungi not only give improved growth of different crops, but also show the potential to increase resistance of the host to root pathogens and to reduce the severity of foliar disease.

Under normal or tropical conditions (poor soils, extreme temperatures, high humidity or drought, presence of pathogens) the use of vesicular-arbuscular mycorrhizal fungi can be especially beneficial to perennial crops.

This product was manufactured according Council Regulation (EC) No. 834/2007 for organic mode of production.

BIOSYM-ENDO is an organic product. 80 % of the plants live in symbiosis with the vesicular-arbuscular mycorrhiza (VA) -mycorrhiza, short ENDO-Mycorrhiza. It is high effective, suited for long-term storage, easy application, machine placement possible, selective disinfection possible. Application in using at existing situations by injecting at the plant or tree or by adding to the grass seeds in inject-sawing-machines.

APPLICATION FIELDS

BIOSYM-ENDO use with: agriculture, horticulture, viniculture, fruit growing, vegetable cultivation, floriculture and lawn.

DON'T use with: Abies (Fir), Acacia, Allocasuarina, Betula (Birch), Carpinus, Carya, Cedrus (Cedar), Fagus (Beech), Juniperus (Juniper), Larix, Nothofagus, Ostrya (Hop-Hornbeam), Picea, Pinus (Pine), Pseudotsuga (Douglas-fir), Pseudolarix, Quercus (Oak), for this use **BIOSYM-ECTO**.

DON'T use with: Andromeda, Arctostaphylos, Arctous, Calluna, Erica (Heather), Kalmia, Ledum, Loiseleuria, Oxycoccus (Cranberry), Pieris, Rhododendron, Rhodothamnus, Vaccinium (Blueberry), for this use **BIOSYM-ERICO**.

ADVANTAGES OF MYCORRHIZED PLANTS:

- improved growing of plants under unfavourable conditions
- improved providing of nutrients, reducing of fertilizer
- biological plant protection; improved plant resistance in case of attacks of parasites and against root and foliar diseases
- improved stress tolerance against abiotic and biotic stress factors (high dryness, extreme temperatures, unfavourable pH values)
- speeding up of nursering, shortening of the period before blooming of flowers
- better growth of plants after planting out, decrease of mortality
- raising of root taking rate of plants

DOSAGE

Trees:	1 liter for 2 trees <10 cm trunksize 1 liter for 1 tree 10-25 cm trunksize
Conifers:	150-500 ml per plant
Shrubs or hedging:	20-50 ml per plant
Roses:	50-100 ml per plant
Lawn:	1 liter per 20m ²

RECOMMENDATIONS FOR USE

Application of BIOSYM-ENDO at the bottom 1 / 3 part of the roots, under grass sod and with grass sowing.

Mycorrhiza is a root stimulator and not a fertilizer. It contains live fungus spores.

This product is harmless to humans, animals and the environment.

Store in dry conditions at temperature below 30°C.

INFORMATION

Weight:	400 kg/m ³
Humidity:	Max. 15% v/v
Spore concentration (MPN):	140/cm ³ (140.000/liter)
Storage:	When stored in dry conditions at temperature below 30°C, you can store it about 3 years.
Soil:	PH value 4-5 optimal, till 7 the development is slower.
Phosphate:	Absorbable phosphate in the soil below 4 mg/kg, above 4 mg the development is slower.

MYCORRHIZA SPORES

The common VA-mycorrhizal fungus spores are:

Glomus intradadices, *Glomus etunicatum*, *Glomus mosseae*, *Glomus geosporum*, *Glomus clarum*.