

E R G O F I T O I N A C T I O N

Give Nature What Nature Wants

Fighting Fusarium with Nature



ERGOFITO

www.ergofito.co.za

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FIGHTING FUSARIUM WITH ERGOFITO:

Fusarium is a large genus of filamentous fungi widely distributed in soil and in association with plants. Most species are harmless saprobes, and are relatively abundant members of the soil microbial community. Some species produce mycotoxins in cereal crops that can affect human and animal health if they enter the food chain. The main toxins produced by these Fusarium species are fumonisins and trichothecenes.

Ergofito help the plants combat plant sicknesses by the multiplication of beneficial bacteria acting in an antagonistic and repressive way towards the phytopathogenic micro-organisms, particularly in soils lacking humus.

The mechanism of this antagonistic/repressive action towards the phytopathogenic micro-organism can be summarized as follows:

- **Micro parasitism:**
Occurs when the lyses of the cell of fungi and pathogen mildew or nematodes through enzymatic activity are attacked.
- **Soil sanitation:**
Occurs with the entry of toxic metabolites for the pathogen micro-organisms, such as phenols, tannins, chlorogenic acid and auxins (biochemical resistance)
- **Food competition:**
This action takes place by the new micro-organisms devouring the existing food source present in the soil thus starving the pathogens.
- **Strengthening of the threshold resistance:**
Promote the structural thickening of the tissues of the epicuticular layers of protection of the leaves and roots that impede penetration into the plant.

The mechanism:

The stimulation of the bacterial activity allows the beneficial (**Ergofito**) micro-organisms to occupy spaces in the plant and the surrounding soil in a complex series of physical, chemical and biological reactions that act against the agents that cause plant diseases.

- Reduction of the spaces, which are normally occupied by pathogens
- Creation of biological antagonistic control of pathogens
- Accentuation in the reaction of the plant's immune system
- Stimulation of the production Phytoalexin

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ERGOFITO ACTION IN PREVENTIVE AND CURATIVE SITUATIONS:

- More efficient defense against parasitic insects due to the plant strengthening
- Fungal preventive action to confront the infections due to Mycogone and Verticillium
- Rot control in seedbeds caused by Pythium & Phytophthora.
- Basal rot control of vegetable crops, agricultural and ornamental due to Phycomycete and Rizoctomia, Sclerotium, Sclerotinia, Botrytis etc.
- Reduction in the incidence of vascular diseases responsible for the withering caused by Fusarium and Verticillum.
- Preventive and curative action in the arboreal cultures (orchards, urban greenery, citrus etc.) as well as forestal fragrances towards the responsible agents for branch cancer (Nectria, Cytospora, Phopsis etc.). Also towards radical attacks due to Basidiomycetes (Armillaria, Fomes, Stereum, etc.) It will also protect pruning cuts from been penetrated by pathogenic fungi.

ELIMINATING FUSARIUM - DOSAGE PER HECTARE.

Prior to applying, the Ergofito product needs to be mixed with water at a dilution rate of 1:50 (1Kg Ergofito to 50 Litres of water) or enough water to cover the area.

Note: As soon as water is added to the Ergofito product the product becomes active and must be applied within 3 days.

First Application (Root application)

Application	Quantity	When
Ergofito Fusarium A	32Kg per Hectare	Immediately

Second Application (Foliar application)

Application	Quantity	When
Ergofito Fusarium B	17Kg per Hectare	One Day Later

Third Application (Root application)

Application	Quantity	When
Ergofito Fusarium A	32Kg per Hectare	5 days after previous application



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