

Mico-Shield

MICROORGANISMS

Reduces transplant stress, improves soil microbiome, and enhances plant growth and productivity

Supports the colonization of beneficial microorganisms on the root and in the rhizosphere

Promotes better root development, reducing transplant stress

Induces vigorous root development



organazoto

info@organazoto.it
www.organazoto.it

Mico-Shield



Characteristics

Mico-Shield is a product based on beneficial microorganisms, designed to promote plant establishment and ensure optimal nutrient absorption even under stress conditions, such as post-transplant. Thanks to **MICO-SET**® technology, which includes a targeted selection of microbial strains of the *Bacillus* genus (*B. subtilis* OG39365*, *B. pumilus* OG69589*, *B. velezensis* OG58369*), mycorrhizal fungi (*Glomus* spp.), and *Trichoderma harzianum* OG99566*, the product improves root system efficiency, increasing the volume explored by the roots and enhancing the plant's resistance to biotic and abiotic stresses. Indeed, thanks to the production of bioactive molecules, the microorganisms present in the product support the development of the plant by activating its natural endogenous defence system, and through their rapid colonization of the soil, they hinder the development of harmful microorganisms. Moreover, the microorganisms present help improve the biodiversity of the rhizosphere microbiome, stimulate the production of natural phytohormones, and optimize the absorption of nitrogen, phosphorus, and iron, thereby supporting rooting and vegetative development. The nitrogen-fixing bacteria *Azotobacter chroococcum* OG15342* and *Azospirillum brasilense* OG19325* fix atmospheric nitrogen symbiotically, making it available to the plant, and transform phosphorus from insoluble to easily assimilable forms, thus enhancing nutritional intake. Finally, thanks to the **TWIN PACK** formulation, the product packaging includes a separate container for *Trichoderma harzianum* OG99566*, in order to avoid unwanted competition with the other microorganisms, which could reduce their effective concentration in the composition and, consequently, the product's field efficacy.

Composition

Composition	w/w (CFU/g)	w/v (CFU/ml)		w/w (CFU/g)	w/v (CFU/ml)	
Mycorrhizae (<i>Glomus</i> spp.)	15%	18%		<i>Bacillus subtilis</i> OG39365*	1.67 x 10 ⁸	2.00 x 10 ⁸
<i>Azotobacter chroococcum</i> OG15342*	4.17 x 10 ⁸	5.00 x 10 ⁸		<i>Bacillus pumilus</i> OG69589*	1.67 x 10 ⁸	2.00 x 10 ⁸
<i>Azospirillum brasilense</i> OG19325*	1.00 x 10 ⁷	1.00 x 10 ⁷		<i>Bacillus velezensis</i> OG58369*	4.17 x 10 ⁸	5.00 x 10 ⁸
<i>Trichoderma harzianum</i> OG99566*	8.33 x 10 ⁷	1.00 x 10 ⁸				

Raw materials: inoculum of endomycorrhizal fungi on sorghum roots, non-composted simple plant amendment, rhizospheric bacteria.

*Exclusive strain isolated and deposited by Organazoto in an international microbial collection.

Doses and Instructions

CROPS	FERTIGATION APPLICATION	DOSE l/ha*
Horticultural crops	From the vegetative recovery stage or transplanting to harvest	2.5 - 5
Fruit trees	From the vegetative growth stage to harvest	2.5 - 5
Ornamentals	During the entire vegetative cycle	2.5 - 5
Industrial crops	From the vegetative recovery stage or transplanting to harvest	2.5 - 5

*The doses are indicative and should be adjusted based on the characteristics of the area and the specific needs of each crop.

Formulation

Packaging

Density (T=20°C)

pH (sol. 6 %)

Conductivity (sol. 10 %)

Soluble liquid

1-5 l

~ 1200 kg/m³

~ 4

~ 1.8 dS/m

Warnings

It is recommended not to mix the product with chemical products to avoid compromising its characteristics (it contains living organisms). Please store in sealed packaging, in a cool, dry place, protected from light and heat (8°C < T < 25°C). Avoid contact with eyes and skin. Organazoto assumes no responsibility for improper storage and/or handling.

Technical Notes



FERTIGATION
APPLICATION



MICROORGANISMS



BIO

MICO-SET®



organazoto

info@organazoto.it

www.organazoto.it