

BIOPLUS

January 2025

Characteristics of the preparation

Bio stimulation, degradation of crop residues

Product type

Biofertilisation. Microbiological fertiliser product.

What plants can this preparation be used on?

Suitable for use on all plant crops.

What is BIOPLUS?

BioPlus is a biopreparation that accelerates the decomposition of organic matter accumulated in the soil, such as crop residues. It can also be used as a preparation for the decomposition of straw, manure and catch crops. Thanks to the microorganisms contained in the preparation, BioPlus naturally increases the sorption properties of the soil and limits the leaching of nutrients from it. The use of BioPlus also improves the health of plants and the quality of crops.

The task of preparation

Faster mineralisation with simultaneous humification. Accelerates the release of nitrogen, phosphorus, potassium, magnesium and other minerals from organic matter in the form of crop residues, catch crops and manure.

How to apply the preparation?

Dissolve 1 kg of the preparation in 300-500 litres of dechlorinated water in a sprayer; apply and spray on an area of 1 ha. After application, it is advisable to mix it with the soil by harrowing, ploughing or using other soil tillage. The preparation should not be used during drought or strong sunlight. The effect of the preparation is visible after a few weeks or a few months, depending on weather conditions.

How does the preparation work?

Selected strains of soil bacteria used in BioPlus, accelerate the decomposition of plant and animal residues. Their high biological activity increases the content of humus and nutrients in the soil, and thus improves its retention functions. BioPlus also increases the water capacity of the soil, and thus makes plants resistant to drought. The use of this preparation contributes to faster decomposition of plant and animal remains, increases the humus content, retains water and minerals in the soil, increases the resistance of plants to drought, contributes to better plant health, increases the quantity and quality of crops and reduces the costs of fertilisation and irrigation.

When to use the preparation?

After introducing organic matter into the soil, in the form of manure or slurry, cover crops or harvesting e.g. cereals and leaving straw or other post-harvest residues.

Description of the process after using the preparation

After being introduced into the soil, the bacteria decomposes the organic matter contained within, releasing mineral compounds needed for subsequent plants to grow. This leads to faster circulation of matter and better use of fertilising compounds contained in organic matter by plants. In addition, the bacteria contained in the preparation, stimulate the growth of the root ball and the growth of above-ground parts, thanks to the secretion of plant hormones. The bacteria contained in the preparation multiply in the soil, which results in the acceleration of their processes, in turn increasing the efficiency of growth. The best results are observed from the second year of use.

Expected effect of application

Reduction in fertiliser requirements (N, P, K), greater plant growth, higher yields, loosening of heavy soils and better sorption properties.

When the expected effect will occur

The effects can be observed a few months after use; however, the best results are visible from the second year of using the product.

Risks and contraindications of use of the preparation

None

Using the preparation with traditional fertilisers – recommendations

It can be combined with all fertilisers and plant protection products, except those containing copper.

Economics of use - impact on reducing production costs, e.g. lower amount of fertilisers

Reduces overall fertilisation requirements. Eliminates the need to use chemical agents that accelerate mineralisation, e.g. RSM. Increases the absorption of applied fertilisers in the soil by increasing the soil's sorption capacity.

Storage (storage conditions)

Store in a dry place at a temperature of -5 to +30 degrees Celsius (-23°F to 86°F), avoid direct sunlight, protect from unauthorised persons, especially children.

Expiration date of the preparation

2 years from the production date.

Composition of the preparation

It contains five strains of the Bacillus genus in a total concentration of 5×10^9 per 1 gram of product. These microorganisms accelerate the decomposition of organic matter, crop residues, manure and catch crops; thereby increasing the amount of mineral substances available to plants.

Other relevant information

The product is completely safe for humans and animals, approved for use in organic farming.