

PHOSPLUS

January 2025

Characteristics of the preparation

Release of phosphorus from the soil / increases the amount of available phosphorus

Product type

Biofertilisation. Microbiological fertiliser product.

What plants can this preparation be used on?

Virtually all of them, especially those that have high phosphorus requirements: corn, rapeseed, tomatoes, blueberries.

What is PHOSAUGET?

PhosPlus is an ecological preparation supporting the fertilisation of crops. The bacteria present in the PhosPlus preparation naturally stimulate the biological activity of the soil, by releasing easily assimilable phosphates necessary for the proper development of plants. It stimulates the release of phosphates in the soil, increases yields, improves plant rooting, increases soil fertility, and reduces fertilisation costs. The preparation is natural and safe for the environment.

The task of preparation

Increasing the available phosphorus concentration in the soil without the need to introduce mineral phosphorus fertilisers into the soil.

How to apply the preparation?

Dissolve 1 kg of the preparation in 300-500 litres of dechlorinated water in an agricultural sprayer. Then spray over an area of 1 ha. It is recommended to mix it with the soil during harrowing, ploughing or other treatments.

How does the preparation work?

After introducing the preparation into the soil, the bacteria contained in PhosPlus gradually decompose the calcium phosphate contained in it. The increase in phosphate concentration has a positive effect on the proper development of plants, and the increased biological activity of the soil supports their proper rooting. The action of PhosPlus is based on natural metabolic processes; the use of the preparation does not carry the risk of over-fertilisation and reduces the need for the use of phosphorus fertilisers.

When to use the preparation?

Preferably before 2-4 weeks before sowing. In the case of winter plants, the preparation can also be applied in early spring, before intensive vegetation begins (if such a situation occurs).

Description of the process after using the preparation

After applying the preparation, bacteria gradually decompose calcium phosphate and other insoluble phosphorus salts, thus providing phosphorus to plants. In addition, bacteria also multiply, which leads to an increase in their number per unit of soil mass, making the process increasingly faster and more effective.

Expected effect of application

The effect of using the preparation is the absence of symptoms of phosphorus starvation in plants (purple leaves), the plant grows better, is healthier, yields or bears better, and a better developed root system is observed. A clear increase in yields (5-15%) is observed even in the case of limited phosphorus fertilisation.

When the expected effect will occur

In the first growing season, within a few months of application.

Risks and contraindications of use of the preparation

Do not use during long-term drought.

Using the preparation with traditional fertilisers – recommendations

There are no contraindications, it can be combined with fertilisers and plant protection products, except those based on copper. PhosPlus can also be used as a component of phosphorus fertiliser. The preparation added to the fertiliser significantly accelerates the release of phosphates in the soil and increases their concentration by up to 200%.

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

Reduction in the amount of phosphorus fertilisation by 10-50% and a simultaneous increase in yields by 5-15%.

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 unauthorized persons, especially children.

Expiration date of the preparation

2 years from the production date.

Composition of the preparation

It contains *Bacillus megaterium* bacteria in a concentration of 10^9 per 1 gram of the product. These microorganisms are responsible for dissolving the calcium phosphate present in the soil. It increases the amount of available phosphorus by up to several hundred percent within two weeks; reducing fertilisation requirements. The product is completely safe for people and animals, approved for use in organic farming. PhosPlus contains a mixture of live soil bacteria collected and selected from natural habitats.

Other relevant information

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