



Biocomposite Correct

Consortium of various bacterial strains, total titer not less than 1×10^9 CFU/ml.

This microbiological product is suitable for all farming systems and all stages of crop rotation.

Advantages:

- It promotes the accelerated breakdown of straw and mineralization of crop residues
- It improves soil health by suppressing plant pathogenic microflora and enhancing its suppressive ability
- It assimilates atmospheric nitrogen and mobilizes phosphorus bound in the soil, converting it into a form that plants can absorb
- It is a key component of the EcoPlus system
- Stimulates growth and development of plants
- It is especially recommended for short crop rotations and when the crop rotation is saturated with cereal crops, maize, and sunflowers

Action

The preparation constitutes a suspension in the culture liquid of a consortium of highly-effective strains of various bacteria species. The preparation contains the culture of living bacteria and the products of their metabolism.

Biocomposite Correct contains new highly-effective strains of bacteria used for the first time, which provides it with a unique complex of useful properties. The microorganisms contained in the preparation have phytoprotective, growth-stimulating, destructive, antagonistic, nitrogen-fixing and phosphate-mobilizing properties:

1. Biodegrading bacteria produce enzymes that break down cellulose, straw, and the lignin in post-harvest residues.
2. Antagonistic bacteria produce biofungicides that inhibit pathogenic microflora.
3. Nitrogen-fixing bacteria assimilate atmospheric nitrogen into a form that plants can absorb.
4. Phosphate-mobilizing bacteria release bound phosphorus, converting it into a form that plants can easily absorb.
5. Bacteria produce growth-stimulating substances.

This allows for a wide practical application of the preparation: from stubble decomposition, suppression of soil phytopathogens, and disease protection to the enhancement of soil fertility and recovery of its beneficial microflora.

Biocomposite Correct use ensures a stable and substantial increase in the quality yield of farming crops.

Biocomposite Correct can be used in any farming systems at any stage of crop growing. Thus, the preparation can be recommended for addressing most practical tasks that previously required using several special-purpose microbiological preparations.

Properties

Biocomposite Correct has polyfunctional biological properties:

- Contributes to accelerated decomposition of straw and stubble remains;
- Suppresses pathogenic fungal and bacterial microflora;
- Assimilates atmospheric nitrogen into a form available for plants due to the associated nitrogen fixing and stimulation of the aboriginal microflora - up to 150 kg/ha per season in terms of ammonium nitrate;
- Mobilizes the soil-bound phosphorus and that added with the basic fertilizers transforming it into a highly digestible form.

Using Biocomposite Correct stimulates and develops farming crops and increases their resistance to adverse exposure ("anti-stress").

The preparation enhances the effect of other agrotechnological measures and agrotechnical methods, for example, those intended to improve the nutrition conditions and the level of crops protection from disease.

Usage regulations

Crop	Consumption rate preparation, l/ha, l/t	Consumption rate working liquid, l/ha, l/t	Method, treatment time, and application features
Cereal and leguminous crops, potatoes	1,0-2,0	5-30	Pre-sowing treatment of seeds (planting material)
Cereal and leguminous crops, maize, sunflower, sugar beet, potatoes, vegetables, fruit, berry crops, grapes	1,0-3,0	200-800	Foliar application during the growing season 1-3 times
All crops	1,0-3,0	200-300	Application to the soil in the spring before planting the crop, or in the summer-fall period after harvesting the crop with immediate incorporation into the soil

Product application features

The product is packaged in factory-sterilized containers.

Before use, check the product's expiration date and shake the container well.

Once the package is opened, the product and prepared working solution should be used on the same day. Prepare the working solution immediately before use. Use non-chlorinated water for preparing the working solution, and avoid exposure to direct sunlight.

When preparing tank mixtures, Biocomposite Correct should be added to the working solution last. Before preparing tank mixtures, it is essential to check the physical and chemical compatibility of the components.

Seed and planting material treatment

Pre-sowing treatment of seeds and planting material is done using machines and equipment designed for seed and planting material treatment or by hand tools.

The treatment should be carried out in warehouses or under cover. During transportation, cover the seeds with a tarpaulin to protect them from direct sunlight.

The product is compatible in tank mixtures with fungicidal seed treatments such as Tebu 60, ME; Scarlet, ME; Polaris, ME; Benefis, ME, and others, insecticidal treatments such as Imidor Pro, SC, and others, and with fertilizer-bio-stimulants for seed treatment like Biostim Start.

In tank mixtures, the recommended dosages of chemical seed treatments and Biocomposite Correct are used.

When using Biocomposite Correct with chemical seed treatments, the tank mixtures should be used within 4–6 hours of preparation. For maximum effectiveness, seeds should be sown on the same day they are treated.

Spraying of plants

Spray plants using any commercially available sprayer in the morning or evening. Spraying with Biocomposite Correct can be combined with chemical fungicides, insecticides, leaf fertilizers, and biostimulants. To increase the efficiency of Biocomposite Correct when used individually, you may add 5 kg of urea (carbamide) by weight to the working solution.

Soil treatment

Soil treatment is performed by spraying the soil in the spring before sowing/planting or during the summer and fall after harvest. Spraying should be done using any commercially available sprayers, preferably in the morning or evening, on cloudy days, avoiding high temperatures and direct sunlight. Spraying the soil with crop residues from the previous harvest should be done immediately before the first or second discing.

After application, the product must be immediately incorporated into the soil using disc harrows or cultivators.

The time between application and incorporation should be minimized. The preparation is incorporated into the soil with plant residues to a depth of 5–10 cm to ensure good aeration conditions.

Biocomposite Correct can be used with soil herbicides.

To stimulate the decomposition of stubble and plant residues, ammonium nitrate or urea (urea) can be added in amounts of 2–10 kg/ha of active ingredient. The minimum nitrogen rate is recommended for treating cereal straw, while the maximum rate is for treating sunflower post-harvest residues.

General information

Formulation

The preparation constitutes a liquid of light-brown to dark-brown color with a faint specific odor. During storage, a fluffy precipitate may be formed. The overall titer of the preparation is at least $1 \cdot 10^9$ CFU/ml.

Storage conditions

The preparation is to be stored unopened in its original package in dry, clean and ventilated premises at +4°C to +10°C. Avoid direct sunlight.

Guaranteed shelf life is 12 months from the date of production

Shelf life is 12 months from the date of production

Safety: hazard class 4, low-hazard substance. The preparation producer strains are non-pathogenic, harmless for humans and animals, and are not toxic, allergenic or toxigenic.

Attention: All the information above is provided for reference only. Before using the preparation, please read the package label and the recommendations of Schelkovo Agrohim specialists.

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia