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humiplus

ORGANIC FERTILIZERS MADE FROM VERMICOMPOST

MANUFACTURING TECHNOLOGY

Cattle manure is a raw material for vermicompost production.

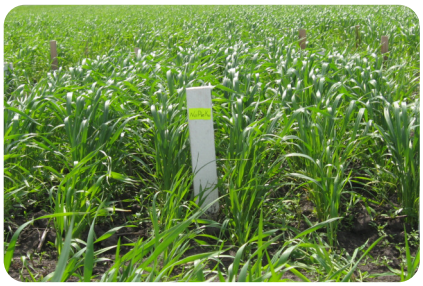
Red Californian worms Eisenia fetida enrich the substrate with biologically active substances, making natural organic fertilizers in it.

As a result of cattle manure processing by the Red wigglers, we obtain truly unique raw material, i.e. vermicompost.

For producing liquid humic fertilizers made from vermicompost we use modern equipment and our own unique technologies.

All production processes are fully automated which contributes to obtaining the highest quality products.

Company's own laboratory makes it possible to control products quality at all stages of manufacturing.

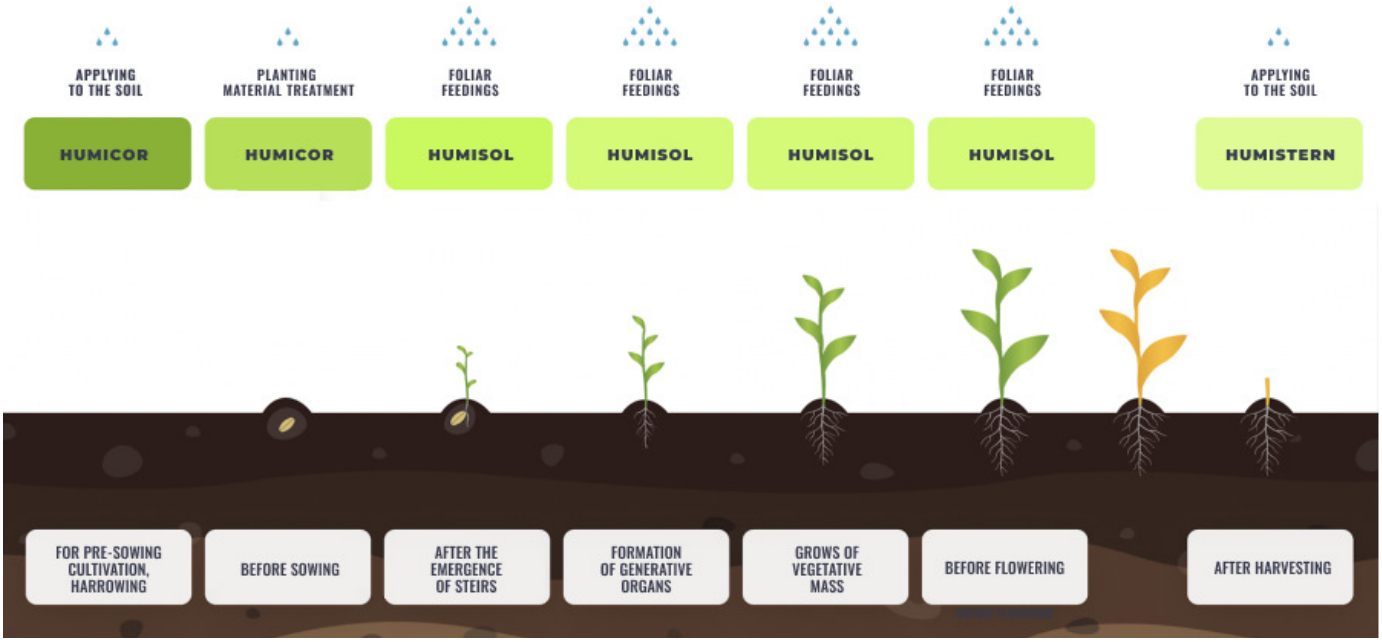


The results of the field trials carried out in various scientific and research institutes have proved the effectiveness of Humiplus fertilizers.

Quality above all! From the production of the basic raw material (vermicompost) to packing into safe and beautiful packages.

Humiplus fertilizers have been approved by Organic Standard.

HUMIPLUS TECHNOLOGY



The main feature of the use of humic fertilizers Humiplus is that farmers are offered a single humic technology from sowing to harvesting.

Humiplus technology does not require any additional operations and is easily combined with any existing technology.

All Humiplus fertilizers are safe for humans and the environment, compatible with most plant protection products and fertilizers, recommended for use in tank mixtures.

Applying to the soil

Treatments of the soil is carried out by spraying an aqueous solution with following surface treatment (or without it) with cultivators and seed drills equipped with a liquid fertilizer supply system.

Seed treatment

Seed treatment is done separately or together with other treatment chemicals before sowing seeds.

Vegetation treatment

Foliar treatments are carried out in critical phases of plant development, when they are especially acutely in need of additional nutrition, stimulation or protection from stress.

Stubble destruction

It is applied by spraying the residues immediately after harvesting or applying it to the soil with simultaneous wrapping.

HUMISOL-PLUS

LIQUID HUMIC FERTILIZERS MADE FROM VERMICOMPOST

12 varieties of the product, additionally stimulated by biogenic elements with high bioavailability for the needs of grain, leguminous, oilseed, corn, vegetable and other crops.

Content:

- physiologically active humic substances;
- macro- and microelements necessary for plant growth and development (Fe, Cu, Zn, Co, Mo, Mn, B);
- phytohormones (auxins, gibberellins, cytokinins, abscisic acid);
- amino acids, vitamins, enzymes;
- agronomically beneficial microflora.

Effect:

- as a growth stimulant Humisol increases germination and vigor of seeds;
- induces plant immunity indirectly - involved in pathogen control because stronger plants are less prone to diseases;
- increases availability of soil microelements and mineral fertilizers;
- involved in transition of the unavailable forms of phosphorus and nitrogen into forms more available to plants;
- increases the content of dry matter, protein, sucrose and vitamins in vegetables;
- improves soil structure and enhances its water-holding capacity.

Humisol fertilizers application technologies

Soaking the planting material before sowing or planting:

1 l/t (1:10) for seeds of grain crops and legumes;
1,5 l/t (1:7) for corn and oilseeds;
2 l/t (1:16) for treatment of tubers before planting;
0.003 l/kg (1:250) for vegetables;
0.2 l/100 seedlings (1:100) for fruit and berry crops.

With simultaneous incorporation into soil:

1.5-3 l/ha.

Root feedings, including drip irrigation:

2.5 - 3 l/ha (1:400, fertigation 1:200) for one feeding of vegetables;
3 l/ha (1:400, fertigation 1:200) for one feeding of fruit crops.

Foliar feedings by spraying the plants during their growing season:

0.5 - 1 l/ha for one feeding of field crops;
1,5 - 2 l/ha for one feeding of fruit crops;
1.5 - 3 l/ha for one feeding of vegetables.

Completely soluble in water and does not clog sprayer nozzles, suitable for spraying using drones.

HUMICOR

HUMIC FERTILIZER FOR SEED TREATMENT, ROOT AND SOIL APPLICATION

Humicor - highly-concentrated humic suspension made from vermicompost, i.e. the product of the cattle manure processing by the Red Californian worms Eisenia fetida.

Content:

- physiologically active humic substances;
- macro- and microelements in organically bound forms;
- phytohormones (auxins, gibberellins, cytokinins, abscisic acid);
- amino acids, vitamins, enzymes;
- agronomically beneficial microflora.

Effect in seed treatment and root application:

- increases germination and vigor of seeds;
- improves plants ability to resist diseases;
- accelerates popping up of sprouts and their uniformity;
- involved in formation of a strong root system;
- helps keep moisture and nutrients in a root system;
- increases soil microbiota activity, in particular nitrogen-fixing and phosphorus-mobilizing bacteria.

Effect in soil application:

- before sowing – improves water-physical properties of soil;
- positive influence on soils sanitation (restoration of soil fertility);
- makes it possible to reduce the application rates of mineral fertilizers in order to obtain ecologically clean products.

Humicor fertilizers application technologies

Soaking the planting material before sowing or planting:

2 l/t (1:5) for cereals and legumes;
3 l/t (1: 3,5) for corn and oilseeds;
4 l/t (1:8) for treatment of tubers before planting;
0.4 l/100 seedlings (1:125) for fruit and berry crops.

With simultaneous incorporation into soil:
3-6 l/ha.

Can be used as a separate product or in combination with UAN and Liquid Complex Fertilizers.

HUMISTERN

HUMIC FERTILIZER FOR SPRAYING RESIDUES IMMEDIATELY AFTER HARVEST

Humistern is a highly concentrated humic suspension made from vermicompost. The product contains a natural association of cellulose-destroying microorganisms with a complex of cellulolytic enzymes from vermicompost and functions as a stubble destructor.

Content:

- physiologically active humic substances;
- macro- and microelements in organically bound forms;
- phytohormones (auxins, gibberellins, cytokinins, abscisic acid);
- amino acids, vitamins, enzymes;
- agronomically beneficial microflora;
- cellulose-destroying microflora with a complex of cellulolytic enzymes.

Effect:

- ensures fast and efficient decomposition of crop residues after harvesting;
- promotes humification of residues;
- suppresses pathogens of fungal and bacterial diseases;
- heals the soil and prevents its degradation.

Humistern fertilizers application technologies

Spraying of crop residues immediately after harvesting:
0.5 l/t of crop residues.

Recommended dosage (usage rate) on crops:
1.5-2 l/ha for legumes;
2.5-3 l/ha for cereals, vegetables and siderates;
3-5 l/ha for corn;
4.5-5 l/ha for oilseeds.

The working solution should be prepared on the day of use and stored for no more than a day.

Processing should be carried out early in the morning or in the evening in windless weather, with the preparation in the soil no deeper than 10-15 cm.

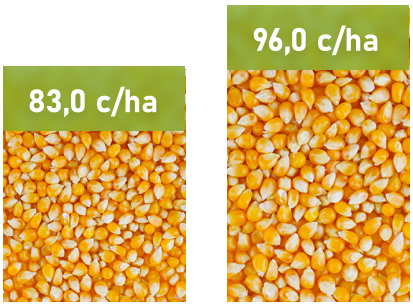
In the case of using Humistern in no-till technology, the amount of working solution should be increased to 400-500 l/ha and treatments should be carried out only at night.

To speed up the work of Humistern, nitrogen fertilizers (ammonium nitrate, UAN, urea) can be added to the tank mixture.

PROVEN BY SCIENCE

STAND-ALONE USE

Experiments at the Institute of Agrobiology showed that Humiplus fertilizers activate plant root growth, increase productivity and improve crop quality and soil fertility.



Control Humiplus

Corn

The use of Humiplus fertilizers increased corn grain yield by 15.7%, improved the weight of 1000 grains, and increased protein and starch content by 3.3% and 4.0%, respectively. Additionally, an increase in the number of cobs per plant, rows, grains per row, and cob size was observed.

Control Humiplus

Sunflower

With the use of Humiplus fertilizers on sunflower, crop yield increased by 13.8% compared to the control, while the weight of 1000 seeds increased and shelliness decreased. Additionally, the content of oil and protein increased up to 5.0% and up to 9.4%, respectively. Plant height, basket diameter, and total leaf surface area also showed an increase compared to the control.

Control Humiplus

Soy

Humiplus fertilizers increased soybean yield by 21.7%, improved seed weight, and increased oil and protein content by 6.9% and 9.3%, respectively. The study also showed increased plant height, number of branches, and nodules compared to the control.

Control Humiplus

Apple

Using Humiplus fertilizers on apple trees increased the yield by 20.9% compared to the control, with improvements in fruit weight, diameter, and productivity per tree. The content of sugars and dry substances in the fruits increased, and the taste quality improved.

PRODUCTIVE COMBINATION

National Scientific Center Institute of Soil Science and Agrochemistry named after O. N. Sokolovsky proved that reducing the level of mineral nutrition of crops to 70% with the use of Humiplus fertilizers allows you to get additional profit without losses in yield compared to optimal nutrition.

This became possible due to an increase in the assimilation rate of nutrients from fertilizers and soil under the action of humic fertilizers based on Humiplus vermicompost.

100% mineral nutrition

70% mineral nutrition + Humiplus

Corn

Many years of experiments have proven that the formation of aerial (supporting) roots of corn occurs even in very unfavorable conditions for the development of the plant (heat or drought). Corn plants more intensively absorb the main elements of mineral nutrition - nitrogen and potassium - from the soil.

100% mineral nutrition

70% mineral nutrition + Humiplus

Sunflower

The use of Humiplus fertilizers on sunflower crops ensures an increase in yield, increases the fat content of seeds and oil, significantly increases the diameter and area of the basket, and also makes it possible to reduce the amount of mineral fertilizers in the fertilization system.

100% mineral nutrition

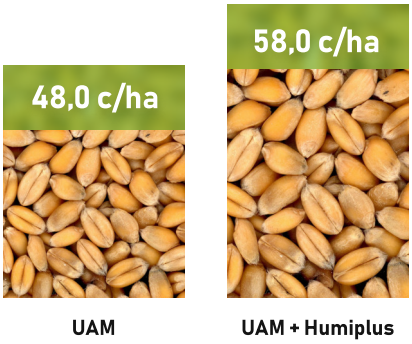
70% mineral nutrition + Humiplus

Winter wheat

The results of the research proved that under the influence of Humiplus fertilizers, the growth and development of plants is significantly accelerated, damage by the main diseases is reduced and the coefficient of bushing increases. The absolute weight of the grain also increases, while its baking properties improve.

FARMER TESTIMONIALS

Ukrainian agrarians confirmed the effectiveness of the use of biological preparations based on vermicompost on winter crops together with mineral fertilizers.



UAM | UAM + Humiplus

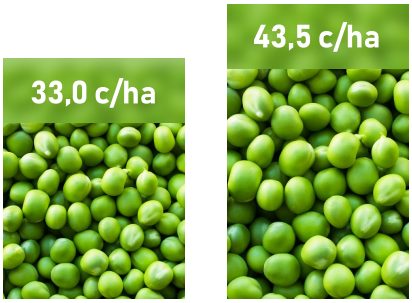
Winter wheat

An investigation was conducted to evaluate the effects of urea-ammonia mixture and vermicompost-based Humiplus fertilizers on winter wheat. The study involved two foliar treatments with a combination of urea-ammonia mixture and Humiplus. The results showed a significant increase in yield of 20.8% compared to the control group.

UAM | UAM + Humiplus

Winter wheat

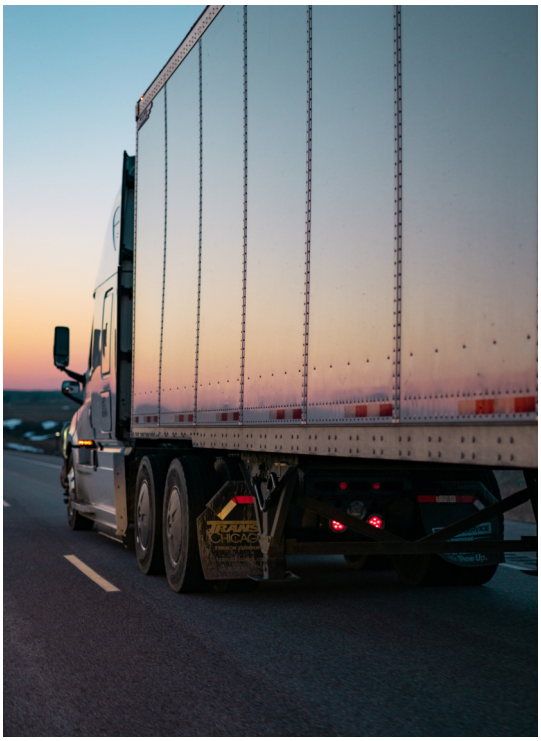
The effect of applying the biological preparations "Humiplus" and the urea-ammonia mixture to the soil using a Cultan type seeder was studied. The results showed that this method led to a 6.6% increase in yield compared to the control group, where only the urea-ammonia mixture was applied



100% mineral nutrition | 100% mineral nutrition + Humiplus

Winter peas

The experiment involved applying a vermicompost-based preparation to the soil as part of the pre-sowing cultivation process for winter peas, in combination with the full classical technology. The results showed an increase in yield of 30.3% compared to the control group.



EXPORT INFORMATION

Hermes Agri-Company has over two decades of experience in exporting high-quality products

Minimum export lot: 200 kg.

Packing: PE bottles 0.5 l, 1 l; plastic canisters 5 l, 10 l, 20 l; IBC containers.

Terms of delivery: EXW.

Sales volume for 6 months*: liquid fertilizers - 60 tons; suspension fertilizers - 52 tons.

*Reflects temporarily reduction in capacity due to relocation to a secure region in Ukraine

Our regular client in Europe since 2001

Agrostim® Biotechnologieprodukte GmbH
Saxony, Germany

More information:

ADDITIONAL MATERIALS:

WEBSITE:

LINKEDIN: