

humilat[®]compo is a liquid organic composting preparation

ACTION humilat[®]compo is a natural concentrate of biologically active humic substances, environmentally friendly, water-soluble, obtained from lowland peat by oxidation with a gas mixture and cavitation-gravity treatment. humilat[®]compo contains a balanced complex of humic and fulvic acids, amino acids, micro and macroelements. humilat[®]compo is 100% soluble; easy to use.

humilat[®]compo provides processing of poultry manure and cattle manure, eliminating unpleasant odors, thanks to a fermentation process that converts poultry manure and cattle manure into a complex concentrated organic fertilizer that can be used as an organic soil improver, convenient for mechanical application to the soil, which in the long term reduces the use of lagoons and landfills for storing bird droppings or cattle manure.

HOW TO USE

1. **Accelerated processing of poultry manure or cattle manure in burts.** To achieve maximum results when processing poultry manure or cattle manure, we recommend using humilat[®]compo from 5-10 l/t, if straw, sawdust, etc. were added to poultry manure or cattle manure, the dose of humilat[®]compo should be increased depending on the amount of impurities. Preparation of the working solution in a ratio of 1:1 - dissolve 1L of humilat[®]compo in 1L of warm (50-60 °C) water.

- Measure the humidity of the initial product, the humidity of poultry manure or cattle manure should be 50-60%, at a lower humidity level, it is necessary to increase the amount of warm (50-60 °C) water in the working solution (ratio 1:3-5).
- Determine the required amount of humilat[®]compo to be applied to the running meter of the burt (approximately arithmetically calculate the volume of raw materials in linear meter: $V=(a*h/2)*m$, where a is the width of the base of the shoulder, h is the height of the shoulder, m is the length of the shoulder. Depending on the moisture content of the manure, 1 m³ of manure can weigh 0.5-0.7 tons).
- Processing with humilat[®]compo. When spraying, it is very important to mix humilat[®]compo with the initial product at least 3 times during the process of applying the working solution (so that our product is distributed as evenly as possible). It is also important to mix the initial product with humilat[®]compo to zero (pay attention to the mixing device to lift/mix the manure completely to the base (asphalt/soil/earth)).
- After the treatment of the manure burts with a working solution, it is necessary to measure the temperature in the burts and humidity, humidity should be within 60-65%.
- It is advisable to measure the temperature in the burts on a daily basis.

The temperature will start to rise to 50-55-60 ° C, and should last 7-9 days.

- When the temperature decreases (at the end of the reaction time), it is possible to start mixing the burts - once a day (only 5-7 times). When mixing the collars, it is important to mix to zero (pay attention

that the mixing device lifts/mixes the contents of the collet completely to the base (asphalt / soil/ earth).

- Under favorable weather conditions (air temperature above 16 ° C, with moderate precipitation) in open landfills, the manure processing process takes 3-5 weeks, according to the actual condition of the raw materials to assess the degree of readiness of the compost. The intensity of the smell is significantly reduced from the moment the **humilat®compo** preparation is introduced, by the end of the processing process, the smell disappears.

After processing the manure or manure of cattle, the rates of application of ready-made complex concentrated organic fertilizer to the soil are reduced to 3-4 times:

- The recommended dose of application of processed bird droppings is 2-3 t/ha;
- Recommended doses of application of processed cattle manure 15-20 t/ha.

The main limiting factor is the lack of moisture in the droppings or manure of cattle. If necessary, add water to **humilat®compo** to increase the effect of the drug.

2. Processing of poultry manure or cattle manure directly inside farms.

Preparation of the working solution in a ratio of 1:1 - dissolve 1L of **humilat®compo** in 1L of water. Spray the litter abundantly with a working solution in places where livestock or poultry are kept before applying a fresh layer of litter. The intensity of the odor is significantly reduced from the moment the humilat ® compo preparation is introduced. These sprays with a working solution are repeated before each application of a fresh layer of litter (usually weekly). After 4-5 weeks, the farm is completely cleaned of litter and taken out to the field (or a place intended for storage (landfill)) in burts.

In spring and autumn, recycled compost is applied to the soil. After this treatment of manure or cattle manure, the rates of application of ready-made complex

organic fertilizer to the soil are reduced by 2-3 times:

- The recommended dose of application of processed bird droppings is 3-4 t/ha;
- Recommended doses of application of processed cattle manure 25-35 t/ha.

3. Treatment of liquid manure in lagoons. When processing liquid manure, we recommend using **humilat®compo** from 0.7-1 l/m³, which is applied directly to the lagoon by a pump with mixing of the entire volume of manure in the lagoon or in intermediate tanks located directly on farms. After this treatment of liquid manure, the rates of application of ready-made complex organic fertilizer to the soil are reduced by 2-3 times: 20-30 m³ / ha.

RESULT After applying this complex concentrated organic fertilizer to the soil, the provision of the soil with assimilable nitrogen reserves improves: the number of ammonifying bacteria increases 3-5 times; the number of nitrifying bacteria increases 3-7 times. Due to the improvement of the living conditions of free-living bacteria, when applying this fertilizer, their ability to fix molecular nitrogen from the atmosphere increases almost 10 times. As a result, the soil is enriched with available nutrients. When organic matter decomposes, a large amount of organic acids and carbon dioxide is formed. Under their influence, hard-to-reach mineral compounds of phosphorus, calcium, and magnesium are transformed into forms accessible to plants.