

A product of SW-Düngesysteme

From nature - for nature

TURF forte

Product information:

TURF forte is an organic slow-release fertilizer with a soil improving effect. It is manufactured of the mycel of the soil fungus *Penicillium chrysogenum*. After application and irrigation the dehydrated and granulated substance serves as a slow-release source of nutrients.

Due to the biological nature (withered biomass of a soil fungus) **TURF forte** has a well-balanced combination of nutrients and is therefore well adapted to the microbial decomposition process in the soil.

TURF forte contains a high natural value of important trace elements and vitamins. The added clay minerals can increase the storage capacity of nutrients.

Contents of nutrients:

Organic substance	80 %
Total nitrogen	8 % N
Total phosphorus	2 % P ₂ O ₅
Potassium oxide	2 % K ₂ O
Magnesium oxide	1 % MgO
pH value	5.3

Other contents: trace elements, vitamins, clay minerals und siderophores (mobilizing iron in the soil with low availability)

Packaging and application: granulate, dry, 25 kg plastic-bags, on palette with 975 kg. The product can be applied by hand, dry-spreader or hydroseeder at any time of the year. Application only onto the surface or to be slightly worked into the soil. Under the influence of humidity the

granules dissolve and a fungus flora, which is perfectly desirable, as well as a typical smell of fungus develop.

The effect of **TURF forte:** Micro-organisms and small animals are essential for the humus formation. After the application of **TURF forte** a microbial decomposition of the organic substances takes place. A rich soil flora and fauna is developed. The requirements for a revitalisation of the soil are fulfilled. This results in a biologically stable soil with an improved balance of air, moisture and nutrients.

The ecological compatibility of **TURF forte:** As the nutrients in the dried fungus substance are for the most part organically bound and activated initially after microbial decomposition **TURF forte** is a slow-release source of nutrients.

The decomposition of organic substance depends on the balance of air, moisture and temperature of the soil. With unfavourable weather conditions – heat, cold, drought – the biological decomposition process, i. e. the release of nutrients is considerably reduced. The nutrient requirements and absorption abilities of the plants are also reduced during periods of extreme climatic conditions. Thus, if no nutrients are released during periods of low nutrient needs there is no loss through leaching, provided that **TURF forte** had been applied correctly.

The release of the nutrients of **TURF forte** takes place during favourable periods of growth during which the plants need a larger amount of nutrients.

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TURF forte promotes root growth: The rich soil flora and fauna developed by means of **TURF forte** application produces a living, hardy soil. A biologically active soil, characterized by a strong decomposition and conversion process offers optimum conditions for an improved root growth. After fertilization with **TURF forte** an increased root development and promotion of the development of mycorrhizae can be seen. Intensive root growth increases the ability of the plants to take up nutrients considerably. Healthy, hardy plants develop which are resistant to plant diseases.

Release of nitrogen: The nitrogen which is organically bound in **TURF forte** is released as ammonium by microbial decomposition (oxidating disintegration). With the suitable dosing the plants will absorb the greatest part of the released ammonium before the micro-organisms (*Nitrosomonas* and *Nitrobacter*) are able to convert it into nitrate. These small amounts of nitrate are absorbed by plant roots. In this way **TURF forte** assists in reducing the pollution of soil and ground water by nitrate leakage.

Places of application:

- Sports and playing fields
- Lawns
- Park areas
- Golf courses
- Outdoor flowers
- Trees, shrubs
- Vegetables



Advantages of **TURF forte**:

- *Activates soil organisms*
- *Regenerates the soil*
- *Stimulates rooting*
- *Contributes to humus formation*
- *Increases the vitality*
- *Improves the hardiness*
- *Has a long-lasting effect*
- *No danger of salting*
- *No risk of overfertilization*
- *Hygienically harmless*
- *Organically bound nitrogen*
- *Can be applied the whole year through*