

Recommended application on golf courses

General description

Over many years, the **TURF** System has been successfully applied in regenerating lawn fields. It consists of three components each of which plays a different role in the nutrient supply and soil improvement, and which can be used individually or in combination.

TURF forte is a slow-release fertilizer with soil-improving effect and consists of dried, granulated biomass of micro-organisms living in the soil. Its application activates the soil life, provides a long-lasting nutrient supply to the plants and promotes the plant health.

TURF activ is a liquid organic fertilizer with long-lasting effect (energy-rich nutrient component). This liquid concentrate containing sugar phosphoric amide (nutrient carrier with organically bound nitrogen and phosphorus components) has to be diluted with water and applied to the soil to produce its long-lasting and soil-improving effects. **TURF activ** has a direct effect on the growth of the plant roots and activates the soil life in deeper layers.

TURF DOLOMAG® green is a special dolomite granulate (granular size: 1 to 3 mm) which has a high content of magnesium. This dolomite granulate has a soil-improving effect in regard to physical parameters. Moreover, it gives the optimum supply of calcium and magnesium to improve the chemical and biological parameters of the soil.

Product	Shape	Granular size	Packaging
TURF forte	Granulate	4 to 8 mm	25 kg-PE bags on palette
TURF golf	Fine granulate	1 to 3 mm	
TURF activ	Liquid concentrate	None	30 kg-canisters or 220 kg-plastic barrels
TURF DOLOMAG® green	Granulate	1 to 3 mm	Bulk material delivered by truck (approx. 25 tons)

Method of application and storage

TURF forte is a dried granulate which can be applied by using any commercial applicators for fertilizers or by hand. Regarding the greens and tees, it is recommended to use the fine granulate (**TURF golf**). The fertilizer needs oxygen and humidity to produce its effect. Therefore, it has to be applied superficially. It may, however, be

worked into the soil (up to 1 cm from the surface at the max.). **TURF golf** does not become ineffective due to frost and can be stored for many years, if it is kept dry.

The liquid concentrate **TURF activ** has to be dissolved in water (minimum proportion 1 to 10, or even better 1 to 20). The fertilizer gets dissolved very quickly and will not disintegrate any more. It can be sprayed onto the soil surface homogeneously. This can be effected with a watering can, or by using irrigation vehicles or irrigation devices. The irrigation of the areas with usual quantities of water



per m² enhances the penetration of active components of the fertilizer, which speeds up the effect. **If the proportion of dilution of **TURF activ** and water is less than 1 to 10, immediate irrigation of the areas is obsolete.** The molecular structures are anchored in the soil shortly after application and are no longer mobile. **TURF activ** does not become ineffective due to frost and storage over many years. Owing to its content of sugar, the colour of the product may change from crystal-clear to light brown when exposed to light.

TURF DOLOMAG® green can be applied like quartz sand. It can be distributed superficially (like sand) or filled into the ventilation holes which had been produced with a vertidrain system. It is recommended to brush in the material by using adequate appliances or a trawl net.

Amounts to be applied and time of application on golf courses

TURF forte and **TURF activ** can be applied the whole year through.

Care should be taken

- that suitable engines/machines can run over the field;
- that there is no frost or snow on the ground.

Both specialities are optimally applied in spring and autumn. The table below includes the amounts to be used.

Product	Period of application	Amount in g/m ²	Note
<i>TURF forte</i>	Spring and autumn	100 to 200 g 100 to 125 g	To be repeated every year.
<i>TURF activ</i>	During the period of vegetation	Three to four times 15 to 25 g each	To be repeated every year.

TURF DOLOMAG[®] green can be applied from springtime until autumn, if the course can be driven on. Normally, an amount of 50 tons of dolomite granulate is used per course. It can be played on only a few days after application. It is, however, recommended to cut the grass short before application. The latter has to be made according to the requirements and has to be, in many cases, repeated for several years.



Product	Period of application	Per m ² and year	Note
<i>TURF DOLOMAG[®] green</i>	Spring until autumn	Approx. 5 to 7 kg	Once a year