

Machinery for Use and Application of the **TURF** System

For technical application of the complete **TURF** system as well as for applying of various **TURF** components, different machines and devices can be used.

1. Application by Hydroseeder

If the **TURF** system is used for recultivation in embankment areas, normally hydroseeders are used. By means of a hydroseeder all **TURF** components can be applied in one go.

These machines consist of a tank with built-in mixing machine in order to mix different components (seed, fertilizer, soil amendment agents and soil binding agents) homogeneously. Further, a hydroseeder has a pump system with which the homogeneously mixed materials can be sprayed onto the embankments. For spraying either a spraying machine or a manual spray nozzle with extension tubes may be used.

The capacity of such a hydroseeder reaches a tank volume from 500 litres up to 15.000 litres. These machines can be supplied as container upper part, as trailer with one or two axles or as complete machine mounted on a truck.

2. Recultivation with Agricultural Machines and Devices

When recultivating level areas resp. those with a slight inclination only, hydroseeders are not necessary. In such a case the **TURF** components will be applied with different machines and devices in separate operations.

Seed will be applied with a seed drill, drawn by a tractor. This procedure has to be undertaken in two steps of drilling, whereby for the second drilling process the drilling direction must be changed by 90° (i.e. crosswise drilling).

TURF forte has to be spread as dry granule by a tractor with a fertilizer spreading machine.

TURF activ has to be solved in water and then sprayed by a clean plant protecting spray nozzle mounted on a tractor.

Tractor, drilling machine, fertilizing machine and plant spraying machine can often be hired - even with driver - from local farmers at a reasonable price.

TURF TERRAVEST K and **TURF Ef** are not always necessary for erosion protection, if level areas resp., areas with slight inclination only are concerned.

3. Applying of **TURF** Components in Agriculture and Forestry

If standard application in agriculture and forestry is concerned, the **TURF** components may be applied with traditional technique.

Concerning for instance undergrowth or copse, the granulated **TURF forte** quantities are spread by hand around the surface of the roots. **TURF activ** can be solved in water and then be applied by means of a watering can or a water tank with a tube and hand nozzle (a mixing machine is not necessary). If large areas have to be sprayed with a tube, a suction pump will be necessary. As **TURF activ** can be mixed with water easily it is sufficient to mix it just with a simple device, for instance a stick.

In case of trees standing at the roadside it can be operated similar to the treatment of undergrowth resp. copse. **TURF forte** is spread in dry consistency, **TURF activ** will be sprayed solved in water (by watering can or water tank), according to the devices available.

When fertilizing culture plants (vegetable, flowers, grain etc.), **TURF forte** will be spread on the surface either by hand or with a swinging spreader. **TURF activ** can be solved in water and then be applied drop by drop, either with a watering can or with a tube. However, **TURF activ** has to be worked into the soil but may not be left on the plants. If the plants have grown already to a thick plant cover, after the spraying it has to be rinsed with water, so that the fertilizer will penetrate into the earth.