



# GREMMLER®

# BAUCHEMIE



## DRAINABLE TREE GRATE

### General

Drainable tree grates will be applied all around in cases where permanent watering of the tree is required with simultaneous unsealing of the area. The area should be easy to clean and easy to process and should feature resistance against environmental influences. In addition to the aforementioned basic requirements the proposed tree grate system also offers some special options (see below) that predetermine it in an outstanding manner for use in different surroundings.

### Properties

For our tree grate system it can either be used the one component UV-stable polyurethane resin binder GI 202 or the elastic two component epoxy-resin binder GI 112 FLEX. With GI 112 FLEX it can be expected – due to the binding material – a slight change in color under the influence of light. Both systems are solvent free and odorless. It is recommended to seal stone carpets once again at least after 24 months with GI 112 FLEX to counteract chalking symptoms.

### Appearance

The shape of the tree grate depends on the location and the tree species and can be prepared by different profiles depending on the requirements of the customer. Depending on the overall appearance, the top layers are made from color quartz-, glass- or nature gravel grains. Due to the different kinds of colors and grains, such as natural precious grit, detailed drawings can be optimally adapted to the environment. Our system is characterized by its high mechanical strength and excellent water permeability and can be built up in medium to high layer thicknesses.



### Application

This system can be used for both new and old trees whereby the pathway of the tree-roots should always be taken into account. The base frame is 15-20 cm deep and can be filled and compressed with a grit grain size of 8-11 mm. The top layer is produced by mixing the binder GI 202 or GI 112 Flex with the corresponding decorative materials (grains size 2-3 mm or 4-6 mm respectively) and is applied on the compressed substructure within a layer thickness of 2-4 mm and is smoothed by use of a finishing trowel. Depending on the particle size of the top layer it must be calculated with consumption between 30 kg and 60 kg of decorative material (at 2-4 cm layer thickness) and 1.5-4.0 kg of binder per m<sup>2</sup>. Finally the smooth, solid and well compressed surface has to be sealed with 350-500 g/m<sup>2</sup> of binder.

### Overview display

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| Foundation excavation:     | 15-20 cm                                                                     |
| Sizing of the grit/gravel: | 8-11 mm                                                                      |
| Consumption:               | filling up the excavation until approx. 2 cm                                 |
| Decorative coating:        | using decorative grain 2-3 mm or 4-6 mm                                      |
| Consumption:               | 30-60 kg/m <sup>2</sup> (depending on the grain) at 2-4 cm layer thickness   |
| Binder:                    | GI 202, GI 112 FLEX                                                          |
| Consumption:               | 1.5-4.0 kg/m <sup>2</sup> (depending on the grain) at 2-4 cm layer thickness |

