



**GREMMLER®**

**BAUCHEMIE**

## GI 202 Decorative binder

- Solvent-free, crack-bridging and lightfast binding material for decorative areas

### Product description

### Application / Properties

GI 202 a solvent free, unfilled and non-pigmented polyurethane-resin based light and weather resistant one component reaction plastic. The product is used as binding material for the manufacturing of synthetic resin screeds and stone carpets on areas on which a high value is set on good resistance against weather and / or lightfastness combined with crack-bridging properties. Furthermore GI 202 is suitable as a solvent-free, crack-bridging sealing material for decorative flooring systems with textured surfaces like full flakes coatings. Classical areas of application are for example showrooms behind windows, balconies, terraces and pathways.

After complete curing GI 202 is physiologically harmless and may therefore be used as top coat for food processing areas (commercial kitchen, bakeries, beverage bottling areas etc.).

Due to the tough-elastic properties of the binding material decorative coatings may be applied on substrates with underfloor heating (maximum supply temperature 35 °C) without any problem.

Sealings made with GI 202 are characterized by good scratch- and abrasion resistance. The product also features good vapour diffusion capability.

The colours of the decorative coating will be optically highlighted by the use of GI 202 and appear many times over intense and bold.

In its completely cured state GI 202 is resistant to water, seawater and sewage water. It is also resistant to many lye solutions, diluted acids, salt solutions, mineral oils, lubricants, fuels and many solvents. (may lead to discoloration)

Polyurethanes with that kind of composition do only have a slight tendency towards discoloration and chalking under the influence of UV radiation.

Because of the transmittance of plastic materials against UV radiation, the visible colored system component underneath needs to have this feature too.

### Color / Package item / Shelf life

**Color:**

Transparent

**Package item:**

6 kg, 10 kg; other units on request

**Shelf life:**

6 months after production date

Storage in original sealed units

Dry, cool and free of frost

### TECHNICAL DATA:

**Density at 23 °C / 50 % rel. hum. of air:**

approx. 1.13 g/cm<sup>3</sup>

**Adhesive strength:**

> Concrete fracture

**Solids content:**

approx. 98 %

**Viscosity (25 °C, V03.4):**

1.100 – 1.700 mPas



## APPLICATION

### Material consumption:

300 – 600 g/m<sup>2</sup> as sealing

1 : 12.5 – 1 : 20 as stone carpet - depending on grain size distribution and porosity of the completed coating.

### Processing time (at 50 % rel. hum. of air):

25 – 35 minutes (30 °C)

50 – 70 minutes (20 °C)

100 – 140 minutes (10 °C)

### Tack free time: (at 50 % rel. hum. of air):

min. 6 – 8 hours, max. 12 hours at 30 °C

min. 12 – 16 hours, max. 24 hours at 20 °C

min. 24 – 36 hours, max. 48 hours at 10 °C

### Curing (complete mechanical stress at 50 % rel. hum. of air):

3 days (30 °C)

7 days (20 °C)

10 days (10 °C)

### Application/Substrate:

The substrate has to be non-slip, clean, to be able to take loads and to be free of separating substances like fats, oils, etc. and at least damp dry.

Sealing with GI 202 has to follow within the recoating time on a recently made full flakes coating or a stone carpet.

Stones carpets are applied on prepared and primed substrates. In any case the primer has to be broadcasted to achieve a certain degree of resistance (trowel) and therefore an easier application.

### Application/Tools:

roller with short or medium-sized fur, metal profiles, smoothing trowel, etc.

### Application/Mixing:

It is recommended to shake this unit before opening.

### Application:

For sealing of stone carpets and full flakes coatings the product is uniformly spread criss-cross by use of a roller with short or medium-sized fur.

Absolute care has to be taken into account on a uniform application to avoid foam forming and optical adverse effects.

Upon bigger areas, care regarding the processing time has to be taken into account to avoid / minimize edges.

By manufacturing stone carpets binder GI 202 is homogeneously mixed with aggregates and spread onto the area. The corresponding layer thickness is adjusted by use of metal profiles and is then manually compressed.

### Application/General:

Material, air and substrate temperatures have to be measured and have to be between 10 °C and 30 °C during the whole application.

Furthermore care has to be taken into account that the substrate temperature is always 3 °C above the dew point temperature.

*The relative humidity of air has to be within the range from 40 % to 80 %.*

The product should be applied at a constant or decreasing temperature in order to avoid blistering by expansion of air in the substrate.

Good ventilation after application and during curing has to be ensured.

During the complete curing phase the area has to be protected against direct contact with water.



## CE-LABELLING:

Products which fall under specifications regulated by a harmonized standard or for which a European Technical Assessment has been issued have be labeled in accordance with Annex III of Regulation (EU) No 305/2011 (Construction Products Regulation) with the CE-mark.

EN 13813:2002 „Screed material and floor screeds – screed materials – properties and requirements“ sets the rules for screed materials used for floor construction indoors.

Coatings and Sealers are included in this regulation as well.

For more detailed information please refer to the corresponding declaration of performance.

## SAFETY INFORMATION:

Only for professional users.

For safe handling of polyurethane resins and their curing agents we do recommend attention to the following leaflets as a matter of principle:

**Leaflet M044**, Manufacturing and use of polyurethanes / isocyanates. (Ed.:Berufsgenossenschaft der Chemischen Industrie). Furthermore the relevant physical, safety-related, toxicological and ecological data have to be taken from the specific material safety data sheets.

### Disposal:

Completely cured material may be disposed via domestic waste.

Hand residual emptied units over to Recycling.

Liquid material has to be disposed of as paint waste which contains solvents or other dangerous substances.

### VOC-Directive 2004/42/EG:

Category IIA/i Type Ib < 500 g/l VOC  
(limit 2010)

### Data base:

The determination of all the data and application information is based in laboratory tests. Measured values in practice may differ because of influences beyond our control.

### Legal foundation:

The following specifications as well as the recommendations for handling and use of our products are based upon our knowledge and experience under normal conditions, at proper storing and application. Because of different materials, substrates and working conditions other than given normal values, a warranty of a working result or a liability – for whatever legal relationship - cannot be justified from these instructions or a verbal guidance respectively, unless intent or gross fault can be imputed to us. Here, the user has to prove that he had transferred in written form, in time and completely every knowledge that is necessary for an appropriate and promising estimation. The user is obliged to test the products on their suitability for the intended purpose. Incidentally our respective terms and conditions of business are valid. You get these on [www.gremmler.de](http://www.gremmler.de). Only the newest edition of this technical data sheet is valid.

**GREMMLER BAUCHEMIE GMBH**  
**LISE-MEITNER-STRASSE 5**  
**46569 HÜNXE**

**PHONE: +49 (0)281 9440340**  
**FAX: +49 (0)281 9440344**  
**info@gremmler.de**  
**www.gremmler.de**

**Technical Information: GI 202 – page 3 of 3**  
**Version: 3.2**  
**Date of revision 7. Oktober 2015**