



GREMMLER®

BAUCHEMIE

GI 210 Primer and mortar resin

- Polyurethane resin for all-purpose use

Product description

Application / Properties

GI 210 is a solvent free, unfilled and non-pigmented polyurethane-resin based dual-component reaction plastic. The product is mainly used as primer and as top coat on substrates made of rubber, asphalt, wood, lay plates or steel. GI 210 is also suitable for the formulation of non- decorative filling compounds and mortar systems.

GI 210 is suitable for areas which are exposed to strong temperature fluctuations. The elasticity is high - even at deeper temperatures. Therefore the product does not tend to embrittle.

GI 210 is low viscous and therefore easy to apply even at low temperatures.

A certain amount of colour change and chalking must be expected under the influence of UV light because of the binding material that has been used.

Color / Package item / Shelf life

Color:

Transparent, yellowish

Package item:

30 kg; other units on request

Shelf life:

12 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. 1.06 g/cm³

Adhesive strength:

> Concrete fracture

Shore-hardness:

A > 80

Solids content:

100 %

Viscosity (25 °C, V03.4):

Component A: 2.000 – 3.000 mPas

Component B: 80 – 120 mPas

Mixture viscosity: approx. 1.200 mPas



APPLICATION

Mixing ratio:

5 : 2 (by weight)
3.1 : 1 (by volume)

Material consumption:

250 – 400 g/m² as primer for smooth substrates
(on rough substrates a higher consumption)

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

12 – 18 minutes (30 °C)
25 – 35 minutes (20 °C)
50 – 70 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 dry.

The surface of the substrate has to be tested and to be prepared according to the results obtained by blasting, grinding or cutting. Depending on the kind of preparation there will be different degrees of roughness which has a strong influence on material consumption.

Application/Tools:

roller with short or medium-sized fur, rubber sweeper, scrapers or trowels

Application/Mixing:

Pour the curing agent completely into the main component. Mix intensively with a slow rotating stirrer (recommendation: double stirrer with shafts that rotate in opposite directions). Pour into a different vessel and mix there intensively again to avoid bad spots. Before applying onto the substrate a homogeneous mass, free of streaks has to be achieved.

Application:

For use as primer or sealer the following applies: The product is poured onto the prepared area, applied with a rubber sweeper and uniformly spread criss-cross by use of a roller with short or medium-sized fur.

To achieve a homogeneous look of the sealer, absorbent substrates have to be sealed at least twice within the recoating time.

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

Self levelling filling compounds up to a layer thickness of 2 mm can be formulated by mixing of GI 210 (first mix component A and component B) with fire-dried quartz grains (fraction 0.1 - 0.4 mm) (at 20 °C, depending on temperature). These filling compounds are spread via scrapers or trowels.

The following layer may be applied directly within the recoating time. If this recoating time is exceeded then the recently applied and still wet area has to be broadcasted with fire-dried quartz sand in advance or otherwise this area has to be prepared by grinding after curing for the next layer.

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.

Relative humidity of air may not exceed 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 are effected by a harmonized standard or for which a European Technical Assessment has been issued should 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/j 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. 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