



GREMMLER®

BAUCHEMIE

GI 101 Oil barrier

- Solvent based pre-primer against pressing oil

Product description

Application / Properties

GI 101 is a solvent based, filled and pigmented epoxy resin based dual-component reaction plastic. The product is used as special pre-primer for oily and with GI 801 previously cleaned cement based substrates (procedure see technical datasheet of GI 801) underneath solvent free coating systems. Also the flooring with conventional and classical flooring systems like linoleum, PVC, parquet, tiles etc. is possible.

GI 101 is low to medium viscous and features high capillary activity. It therefore penetrates perfectly even at lower temperatures into the most capillary pores of the substrate.

GI 101 features excellent adhesion even on damp matt substrates. It functions as an effective protection against the formation of blisters from rearward moisture penetration. Due to its special composition the capillary pores of the substrate are sealed so tightly that the follow-up coating is protected against pressing moisture and oils which ascend from the substrate.

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.

Colour / Package item / Shelf life

Color:

Light grey

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. 1.90 g/cm³

Adhesive strength:

> Concrete fracture

Shore-hardness:

D > 80

Solids content:

95 %

Viscosity (25 °C, V03.4 / V03.1):

Component A: 1.300 – 2.000 mPas
Component B: < 50 mPas
Mixture viscosity: approx. 450 mPas



APPLICATION

Mixing ratio:

100 : 12 (by weight)

3.7 : 1 (by volume)

Material consumption:

600 – 800 g/m² for smooth substrates
(on rough substrates a higher consumption)

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

25 – 35 minutes (30 °C)

50 – 70 minutes (20 °C)

90 – 110 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 previously cleaned with GI 801, non-slip, clean, to be able to take loads and to be free of separating substances like fats, oils, etc. and at least damp matt.

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 have a strong influence on material consumption.

Application/Tools:

Roller with short or medium-sized fur, rubber sweeper

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:

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.

The following primer may be applied directly within the recoating time. If this recoating time is exceeded then the area has to be prepared by grinding after curing for the next layer. The oil barrier may not be broadcasted due to the fact that the barrier function may be lost in this case.

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 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 epoxy resins and their curing agents we do recommend attention to the following leaflets as a matter of principle:

Leaflet BG-Regel BGR 227, Handling of Epoxy resins. (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.

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