



GREMMLER®

BAUCHEMIE

GI 116 Water based primer

- Dispersion primer / sealer

Product description

Application / Properties

GI 116 is an water based, unfilled and non-pigmented epoxy resin based dual-component reaction plastic. The product is mainly used as diffusible primer underneath water based coating systems or other floorings, and as dust-collecting finish of cement bound substrates for example in workshops and industrial halls. Furthermore GI 116 features excellent adhesion on metallic substrates such as iron and steel, on old coatings, various plastics and on other critical substrates. It is only for use in inside areas.

Within its liquid state GI 116 is free of organic solvents, odourless, non-flammable and not explosive.

GI 116 is very low viscous and features high capillary activity in its diluted state. It therefore penetrates perfectly even at lower temperatures into the most capillary pores of the substrate.

The product is designed for the direct use on mineral bound substrates with a residual moisture up to 5 % on cementous screeds (determined by CM method) and up to 1 mass % on anhydrite screeds respectively.

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:

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

Solids content:

approx. 65 %

Viscosity (25 °C, V03.4):

Component A: 500 – 800 mPas

Component B: 200 – 400 mPas

Mixture viscosity: approx. 400 mPas



APPLICATION:

Mixing ratio:

1 : 3 (by weight)
30 : 100 (by volume)

Material consumption:

250 – 400 g/m² as primer for smooth substrates
(on rough substrates a higher consumption)
130 – 250 g/m² as dust-collecting finish diluted
with 20 % water

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

20 – 25 minutes (30 °C)
40 – 50 minutes (20 °C)
80 – 100 minutes (10 °C)
End of pot life is not visible

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 have a strong influence on material consumption. Iron and steel areas have to be prepared according to DIN 55928 until a standard degree of purity Sa 2.5 by derusting.

Application/Tools:

Rubber sweeper, roller with short or medium-sized fur, trowel, smoothing trowel etc.
Clean tools with water and not with solvent

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, if necessary dilute with water and mix there intensively again to avoid bad spots. Before applying onto the substrate a homogeneous mass, free of streaks has to be achieved.

GI 116 is dilutable with 20 % water.

Application:

For use as primer, sealer or as impregnation 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.

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

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 fall under specifications regulated by a harmonized standard or for which a European Technical Assessment has been issued have to 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 wb < 140 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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