



GREMMLER®

BAUCHEMIE

GI 217 Plasticiser resistant top coat

- Solvent free, glossy top coat based upon aspartic esters

Product description

Application / Properties

GI 217 is a solvent free, unfilled and non-pigmented aspartic ester based dual-component reaction plastic. The product is used in inside and outside areas within a layer thickness between 0.15 to 0.3 mm. The product is used upon areas with medium mechanical and high chemical stress where the main focus is very good weather resistance and / or light fastness. Due to its high chemical resistance as well as its resistance against plasticisers and antioxidants GI 217 is mainly used as top coat for industrial and decorative flooring systems for example in car dealerships and garages.

Sealings made with GI 217 are tough and feature high abrasion and scratch resistance.

The colours of the decorative coating will be optically highlighted by the use of GI 217 and appear many times over intense and bold.

In its completely cured state GI 217 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 (change of colour is possible).

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 permeability of plastic materials against UV radiation, the visible coloured system component needs to have this feature too.

Colour / Package item / Shelf life

Colour:

Transparent, glossy

Package item:

3 kg, 5 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:

1.1 g/cm³

Adhesive strength:

> Concrete fracture

Shore-hardness:

D > 65

Solids content:

100 %

Viscosity (25 °C, V03.4):

Component A: 400 – 600 mPas

Component B: 380 – 580 mPas

Mixture viscosity: approx. 720 mPas



APPLICATION

Mixing ratio:

3 : 2 (by weight)
5 : 3 (by volume)

Material consumption:

200 – 400 g/m²

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

10 – 15 minutes (30 °C)
20 – 30 minutes (20 °C)
30 – 40 minutes (10 °C)

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

min. 1 – 2 hours, max. 12 hours at 30 °C
min. 2 – 4 hours, max. 24 hours at 20 °C
min. 4 – 8 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.

Sealing has to follow within the recoating time on a recently coated area.

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.

GI 217 is ready formulated and may not be filled or diluted.

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.

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

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 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.

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