



GI 237

Polyurea top coat

- **Rapid curing**
- **Lightfast**
- **Pigmented**
- **Scratch-resistant and high mechanical resistance**

Product description:	GI 237 is a solvent-free, coloured, high opaque and semi-glossy hardening sealant and coating material based on an aspartic acid ester for cement and reaction plastic bound substrates.
Usage area:	Inside and outside area: pergolas, path markings, car warehouses, garages and walls.
Usage:	<ul style="list-style-type: none">• Can be applied directly onto the substrate• Substrate can alternatively be primed with GI 118 or GI 115• Structure sealing adjustable by means of suitable thixotropic agents. Perform suitability test in advance.
Properties:	<ul style="list-style-type: none">• Rapid curing• Medium to high mechanical resistance• High abrasion and scratch resistance• Usable in constant wet areas• Resistant against plasticizers and antioxidants
Substrate:	<ul style="list-style-type: none">• Residual moisture: < 4 % cement-based substrates 0,5 % weight anhydride screed

Technical Data:

Colour:	RAL 7032; more colours on request
Package size:	15 kg; other units on request
Storage life:	From production date 12 months; store in original containers; dry, cool, frost free.
Density at 23°C / 50 % air humidity: EN ISO 2811-1:2011	Approx. 1.37 g/cm ³
Solid parts:	Approx. 100 %
Viscosity (25 °C, V03.4): EN ISO 2884-1:2006	Component A: 1500 – 2300 mPas Component B: 400 – 600 mPas
Mixing ratio:	5 : 2 (By weight) 1.94 : 1 (By volume)
UV-resistance:	A slight change in colour and some chalking is expected.
Chemical resistance:	When completely cured resistant against: Water, sea and wastewater, a number of brines, diluted acids, saline solutions, mineral oils, lubricants, fuels and many solvents (with some materials a change in colour is possible). We advise to carry out suitability tests in advance.

Processing data:

Material usage:	150 – 350 g/m ² per layer Addition of 1 – 2% thixotropic agents for structure sealing These values are dependent on how the product is processed and on the substrate. The values are therefore only for a rough estimate.
Processing time (at 50 % air humidity)	8 – 12 minutes (30 °C) 15 – 25 minutes (20 °C) 30 – 40 minutes (10 °C)
Revision time (at 50 % air humidity)	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 time (complete mechanical stress at 50 % air humidity)	3 days (30 °C) 7 days (20 °C) 10 days (10 °C)
Processing temperature:	10 – 30 °C

Processing:

Preparation of the substrate:	<ul style="list-style-type: none">• Substrate must be dry, clean, rough, stable and free of separating substances like oil, fats etc.• Must be grinded or blasted (except cement bound substrate). Depending on the preparation work, the surface may be rough in some places which will influence the consumption.• For uneven substrates we advise levelling layer with GI 118 or GI 115 to ensure an even surface for the application.
Tools:	<ul style="list-style-type: none">• Rubber slider, roller, paint grids
Mixing:	<ul style="list-style-type: none">• Pour the curing agent completely into the resin compound.• Mix intensively with slow turning mixer (we advise a double stirrer with the stirring units turning the opposite direction to each other).• Fill into another vessel and mix again.• Before applying to the substrate make sure to have an even and smear-free mixture.
Application:	<ul style="list-style-type: none">• Apply with rubber slider and short or medium piled roller evenly in a cross shaped pattern with the help of paint grids.• In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.• Within the revision time, the sealing can be applied directly onto the primer.• If the revision time is exceeded then the recently applied and still wet area must be broadcasted with fire-dried quartz sand in advance or otherwise this area must be prepared by grinding after curing for the next layer.

Processing conditions:	<ul style="list-style-type: none"> • The material, air and ground temperature must be between 10 °C and 30 °C during the processing, installation and curing time. • The substrate temperature must be at least 3 °C above the dew point. • The air humidity should not be above 80 % at any time. The application should take place when temperature is at a constant or falling value to avoid blisters because of the extension of air underneath the ground. It is important to keep an eye on the venting during and after the application. The area must be protected from any direct water contact during the whole curing time.
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Further information:

CE-label:	DIN EN 13813: 2002 DIN EN 1504-2: 2004
Safe handling:	The product is intended for professional use. Leaflet M044, production and processing of Polyurethanes and isocyanate. Please note the current safety data sheets.
VOC-contents:	VOC-directive 2004/42/EG: Category IIA/j type Ib < 500 g/l VOC
Disposal:	Disposal with the assistance of a disposal specialist under consideration of the current safety data sheets.
GISCODE:	PU 40

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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