GI 110

Primer and mortar resin

- **Universally useable**
- **Low viscous**
- **Total Solid according to the test method of Deutsche Bauchemie**

Product description:	GI 110 is an unfilled and transparent curing dual-component reaction plastic based on epoxy resin for cement and reactive resin bound substrates.
Usage area:	• Workshops, industrial warehouses, parking areas
Usage:	• Primer under coating systems and floorings • Formulating of non-decorative putty and mortar systems • Laminating resin • Dust binding of cement-bound substrates
Properties:	• Low viscosity • High capillary activity • Impermeable to carbon dioxide so a protection of steel surfaces from carbonation is created.
Substrate:	• Residual moisture: < 4 % cement-based substrate (tested by CM) 0,5 mass % weight anhydride screed.

Technical Data

Colour:	Transparent, yellowish
Pack size:	30 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 2811-2:2011**	Approx. 1.09 g/cm^3
Adhesive pull strength: **EN 1542**	> Concrete fracture
Shore hardness: **ISO 7619-1:2012**	D > 70
Solid parts	Approx. 100 %
Viscosity (25 °C, V03.4): **EN ISO 2884-1:2006**	Component A: 570 – 850 mPas Component B: 50 – 80 mPas
Mixing ratio:	2 : 1 (by weight) 1.83 : 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, numerous 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.

Gremmler Bauchemie GmbH
Lise-Meitner-Straße 5
46569 Hünxe

Phone +49 281 94403-40
info@gremmler.de
www.gremmler.de

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Processing Data:

Material usage:	250 – 400 g/m² as primer for even substrates (rough substrates lead to a higher usage) 1:10 – 1:25 as mortar depending on the grading curve, application and the open porosity of the finished layer. These values are dependent on how the product is processed and on the quality of the substrate. The values are therefore only for a rough estimate.
Processing time (50 % air humidity):	12 – 15 minutes (30 °C) 25 – 30 minutes (20 °C) 40 – 50 minutes (10 °C)
Revision time (50 % air humidity):	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 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:	• Substrate must be dry, clean, rough, stable and free of separating substances like oil, fats etc. • Must be grinded or blasted. Depending on the preparation work, the surface may be rough in some places which will influence the consumption.
Tools:	• Rubber slider, short or medium piled roller, trowel, toothed squeegee, smoothing trowel, etc..
Mixing:	• 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:	
Primer:	• Apply the product with a rubber slider and evenly spread with short or medium piled roller in cross pattern. • If the revision 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 after curing by grinding for the next layer.
Self-levelling filler up to 2 mm:	• The ready-to-apply coating GI 110 is to be mixed 1:1 with GREPOX SLD (20 °C, dependent on temperature). • The filler is poured onto the prepared area and evenly spread with a toothed squeegee or a smoothing trowel.
Mortar:	• The product is poured onto the prepared area, the appropriate layer thickness is adjusted by use of metal profiles and then the coating is manually or mechanically compressed. • For layer thicknesses > 1 cm, intermediate compression should be used to ensure sufficient adhesive strength of the mortar.

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Processing conditions:	• 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 inside the substrate. It is important to keep an eye on the ventilation during and after the application. The area must be protected from any direct water contact during the whole curing time.

Further information:

CE-label:	DIN EN 13813: 2002 DIN EN 1504-2: 2004
Safe Handling:	The product is intended for professional use. DGUV Rule 113-012: Handling with Epoxy resins Please note the current safety data sheets.
VOC-Content:	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:	RE 90

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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