GI 126

Conductive self-levelling coating (ECF)

- **Durable**
- **Tough**
- **Pigmented**
- **Total Solid according to the test method of Deutsche Bauchemie**

Product description:	GI 126 is a coloured and pre-filled coating material based on a dualcomponent epoxy resin.
Usage area:	• Inside areas: e.g. gas operation services, operating rooms, ammunition depots, mainframe computer systems and storage areas in which rubber tyre industrial trucks can operate, clean rooms for the automobile industry and respective suppliers, in the electronic industry, in hospitals and explosion proof storage areas in which no ESD coating is required.
Usage:	• Smooth coatings which can conduct electrostatic charges which need to be transported away for production- or safety relevant reasons.
Properties:	• High mechanically and chemically resistant • High abrasion resistance • Glossy • Easy to clean • In combination with GI 125 the coat permanently fulfils the requirements of DIN IEC 61340-4-1 in which the earth resistance in explosion-endangered rooms must be $R_E < 1 \times 10^6\ \Omega$.
Substrate:	• Must be primed and coated with the conductive layer GI 125.

Technical Data

Colour:	Approx. RAL 7032; more colours on request
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 2811-1:2011**	Approx. 1.53 g/cm^3
Adhesive pull strength: **EN 1542**	> Concrete fracture
Shore hardness: **ISO 7619-1:2012**	D > 80
Compressive strength: **EN ISO 604**	Approx. 95 N/mm^2
Flexural strength: **EN ISO 178**	Approx. 25 N/mm^2
Bleeder (DIN IEC 61340-4-1:2004) **Measuring instrument: Metriso 3000:**	$R_{E\ SYSTEM} < 10^6\ \Omega$
Solid parts	Approx. 100 %
Viscosity (25 °C, V03.4): **EN ISO 2884-1:2006**	Componente A: 2500 – 3850 mPas Componente B: 200 – 300 mPas
Mixing ratio:	5 : 1 (by weight) 3.2 : 1 (by volume)
UV-resistance:	A slight change in colour and some chalking is expected.

Gremmler Bauchemie GmbH
Lise-Meitner-Straße 5
46569 Hünxe

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

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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.

Processing Data:

Material usage:	1.6 kg/m²/mm layer thickness Minimum layer thickness: 1.7 mm Recommendation: 2.5 – 3.0 kg/m² 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 (50 % air humidity):	15 – 20 minutes (30 °C), prickle after 10 minutes 30 – 40 minutes (20 °C), prickle after 25 minutes 50 – 70 minutes (10 °C), prickle after 45 minutes
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. • The conductive coat must be applied onto a prepared, primed and with the conductive layer GI 125 coated substrate. • Pay attention to the earthing connections. • The coating must be applied onto the conductive layer directly within the revision time.
Tools:	• Smoothing trowel, toothed squeegee (minimum 6 mm), spiked roller
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. • GI 126 is ready formulated. Filling materials are not to be added under any circumstance.
Application:	• The product is to be poured over the prepared area and spread evenly with a toothed squeegee. • After 25 minutes (20 °C) the coat must be deaerated by using a spiked roller to ensure a homogeneous surface and good conductive properties. • In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.

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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 lb < 500 g/l VOC
Disposal:	Disposal with the assistance of a disposal specialist under consideration of the current safety data sheets.
GISCODE:	RE 30
General:	• Colours with poor coverage (e.g. white, light gray, light yellow, light orange, etc.) may require a higher layer thickness or a multi-layer structure. • Depending on the type and strength of the point load, surface disturbances may occur, but these do not affect usability and are not a fault or deficit within the product. • Only work with same batch numbers to avoid colour differences. If this is not possible, available batches must be mixed to minimize this effect. • In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences. • Should heating be necessary for professional installation, do not use heat sources based on fossil fuels because they produce water vapour and carbon dioxide which disturbes the surface of the coating. • Pay attention to structural and on-site conditions such as joints, cracks, etc.

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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