

# GI 125

## Conductive layer

- Waterborne
- Low odour
- Solvent free



<b>Product description:</b>	GI 125 is a solvent-free, black and conductive dual-component reaction plastic based on an epoxy resin dispersion.
<b>Usage area:</b>	<ul style="list-style-type: none"><li>• 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.</li></ul>
<b>Usage:</b>	<ul style="list-style-type: none"><li>• In combination with conductive coats GI 126 and GI 228 for the construction of a conductive coatings</li><li>• In combination with GI 127 the requirements for ESD-floorings are permanently fulfilled.</li></ul>
<b>Properties:</b>	<ul style="list-style-type: none"><li>• Waterborne</li><li>• Low odour</li><li>• Excellent interlayer adhesion, to the primed substrate as well as to the subsequent coating. The cured layer must be abrasion resistant and dull / matt.</li></ul>
<b>Substrate:</b>	<ul style="list-style-type: none"><li>• Priming and if applicable a compensating filler is mandatory: GI 110, GI 115 or GI 118 depending of substrate</li><li>• Not usable on flexible substrates like mastic asphalt</li></ul>

## Technical Data

<b>Colour:</b>	Black
<b>Pack size:</b>	10 kg; other units on request
<b>Storage life:</b>	From production date 12 months; store in original containers; dry, cool, frost free
<b>Density at 23°C / 50 % air humidity: EN ISO 2811-1:2011</b>	Approx. 1.1 g/cm <sup>3</sup>
<b>Adhesive pull strength: EN 1542</b>	> Concrete fracture
<b>Solid parts</b>	Approx. 40 %
<b>Viscosity (25 °C, V03.4): EN ISO 2884-1:2006</b>	Componente A: 800 – 1200 mPas Componente B: 420 - 630 mPas
<b>Mixing ratio:</b>	1 : 5 (by weight) 1 : 5.1 (by volume)
<b>UV-resistance:</b>	A slight change in colour and some chalking is expected.
<b>Chemical resistance:</b>	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.

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### Processing Data:

<b>Material usage:</b>	100 – 150 g/m <sup>2</sup> These values are dependent on how the product is processed and on the substrate. The values are therefore only for a rough estimate.
<b>Processing time (50 % air humidity):</b>	20 – 25 minutes (30 °C) 40 – 50 minutes (20 °C) 70 – 90 minutes (10 °C)
<b>Revision time (50 % air humidity):</b>	Min. 4 – 6 hours, max. 12 hours at 30 °C Min. 8 – 12 hours, max. 24 hours at 20 °C Min. 16 – 24 hours, max. 48 hours at 10 °C
<b>Curing time (complete mechanical stress at 50 % air humidity):</b>	3 days (30 °C) 7 days (20 °C) 10 days (10 °C)
<b>Processing temperature:</b>	10 – 30 °C

### Processing:

<b>Preparation of the substrate:</b>	<ul style="list-style-type: none"><li>• Substrate must be dry, clean, rough, stable and free of separating substances like oil, fats etc.</li><li>• The conductive coating must be applied onto a prepared and primed substrate. Rough surfaces due to grinding or blasting must be levelled by use of an additional levelling layer.</li><li>• An earthing connection must be made.</li><li>• Within the revision time, the coating can be applied directly onto the primer. If the revision time is exceeded, the primed surface must be prepared by blasting etc. for further application</li></ul>
<b>Tools:</b>	<ul style="list-style-type: none"><li>• Short or medium piled roller, wiper grids, rubber slider</li></ul>
<b>Mixing:</b>	<ul style="list-style-type: none"><li>• Pour the resin compound completely into the curing agent.</li><li>• Mix intensively with slow turning mixer (we advise a double-stirrer with the stirring units turning the opposite direction to each other).</li><li>• Fill into another vessel and mix again.</li><li>• Before applying to the substrate make sure to have an even and smear-free mixture.</li><li>• The mixed GI 125 can be diluted with up to 5% water for an easier application. The conductive properties do not get affected.</li></ul>
<b>Application:</b>	<ul style="list-style-type: none"><li>• Apply the product with rubber slider and evenly spread with short or medium piled roller in a cross pattern.</li></ul>
<b>Processing conditions:</b>	<ul style="list-style-type: none"><li>• The material, air and ground temperature must be between 10 °C and 30°C during the processing, installation and curing time.</li><li>• The substrate temperature must be at least 3 °C above the dew point.</li><li>• 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.</li></ul>

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### Further information:

<b>CE-label:</b>	DIN EN 13813: 2002 DIN EN 1504-2: 2004
<b>Safe Handling:</b>	The product is intended for professional use. DGUV Rule 113-012: Handling with Epoxy resins Please note the current safety data sheets.
<b>VOC-content:</b>	VOC-directive 2004/42/EG: Category IIA/j type wb <140 g/l VOC
<b>Disposal:</b>	Disposal with the assistance of a disposal specialist under consideration of the current safety data sheets.
<b>GISCODE:</b>	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](http://www.gremmler.de). Only the newest edition of this technical data sheet is valid.