

GI 150

Epoxy resin coating

- Surface protection system with tar substitutes
- Tough-elastic



GREMMLER®
BAUCHEMIE

Product description:	GI 150 is an epoxy based, pre-filled and pigmented dual-component reactive resin modified with tar substitutes.
Usage area:	<ul style="list-style-type: none">• Biogas plants, steel sheet walls, clarifiers and digesters, etc.
Usage:	<ul style="list-style-type: none">• Coating of concrete and steel areas
Properties:	<ul style="list-style-type: none">• High chemical resistance• Good abrasion resistance• High tough-elastic• Dual-layer application mandatory, to differentiate between layers, it is best to use different colours
Substrate:	<ul style="list-style-type: none">• Residual moisture: < 4 % cement-based substrates (tested by CM)

Technical Data

Colour:	Approx. RAL 7032; more colours on request
Pack size:	10 kg, 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. 1.37 g/cm ³
Adhesive pull strength: EN 1542	> Concrete fracture
Shore hardness: ISO 7619-1:2012	A > 80
Solid parts	Approx. 100 %
Viscosity (25 °C, V03.4): EN ISO 2884-1:2006	Componente A: 5250 – 7880 mPas Componente B: 110 - 160 mPas
Mixing ratio:	7 : 1 (by weight) 5.05 : 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.

GI 150

Epoxy resin coating



Processing Data:

Material usage:	250 – 400 g/m ² per layer on steel substrates 400 – 500 g/m ² per layer on cement substrates 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):	22 – 28 minutes (30 °C) 45 – 55 minutes (20 °C) 90 – 110 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:	<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. Depending on the preparation work, the surface may be rough in some places which will influence the consumption.• Iron and Steel areas are to be prepared by removal of rust until a standard degree of purity Sa 2.5 according to DIN 55928.
Tools:	<ul style="list-style-type: none">• Short or medium piled roller, paint grids, brush etc.
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.• The GI 150 is finished and ready to go therefore the product shall not be filled or diluted.
Application:	<ul style="list-style-type: none">• GI 150 must be applied in two layers as the first layer works as a primer. To make sure two coats are applied over the whole surface we advise to use different colours for each layer.• Apply with short or medium-piled roller, on walls with the help of paint grids, in a cross shaped pattern or apply directly with a brush.• Within the revision time the second layer can be applied directly on the first layer.• If the revision time has been exceeded, the coating when fully cured, must be casted and prepared for further layers.• In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.

GI 150

Epoxy resin coating



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 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.