GI 192

Repair mortar

- **Liquid-tight**
- **Fast curing**
- **Total Solid according to the test method of Deutsche Bauchemie**

Product description:	GI 192 is a non pigmented, pre-mixed dual-component reaction plastic based on epoxy resin.
Usage area:	• E.g concrete paths and ramps, in battery rooms and brine factories, in storage, factory and production halls
Usage:	• Re-profiling and renovation of cement bound substrates in mechanical and chemically stressed industrial areasFor renovation, repair and filling jobs • Minimum layer thickness 3 mm • Fillets can be made with GI 192
Properties:	• Fast curing • Liquid-tight • Curing almost free of shrinkage • Expansion coefficient approximately the same as concrete
Substrate:	• A Primer is necessary: GI 110, GI 115 or GI 118 depending of substrate

Technical Data

Colour:	Grey
Pack size:	12.5 kg, 25 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. 2.0 g/cm^3
Adhesive pull strength: **EN 1542**	> Concrete fracture
Compressive strength: **EN 196-1:2006**	Approx. 130 N/mm^2
Flexural strength: **EN 196-1:2006**	Approx. 35 N/mm^2
Elastic modulus:	Approx. 16000 N/mm^2
Shore hardness: **ISO 7619-1:2012**	D > 80
Solid parts	Approx. 100 %
Viscosity (25 °C, V03.4): **EN ISO 2884-1:2006**	Componente A: earth-moist Componente B: 160 – 250 mPas
Mixing ratio:	100 : 3.6 (by weight)
UV-resistance:	A slight change in colour and some chalking is expected.

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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:	2 kg/m^2/mm for re-profiling 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):	18 – 22 minutes (30 °C) 35 – 45 minutes (20 °C) 60 – 80 minutes (10 °C)
Revision time (at 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 substrate must be checked, prepared properly and primed.
Tools:	• Trowel, screed board, 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:	• For re-profiling GI 192 is applied directly onto the fresh primer, compressed and levelled to the surface height.
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.

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Further information:

CE-label:	DIN EN 13813: 2002
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

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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