

GI 137

Watery EP resin

- Pigmented, watery epoxy resin
- Silk matt
- Universally useable
- Low emission



GREMMLER®
BAUCHEMIE

Product description:	GI 137 is a water based, filled and pigmented dual-component reaction plastic based on epoxy resin for the inside usage.	
Usage area:	• In floors of garages, industrial warehouses, basements and walls, workshops	
Usage:	As primer:	GI 137 is dilutable with up to 20 % water and then to be directly applied to the substrate
	As sealing:	ready to be applied without needing to be diluted
	As self-levelling coating:	to be mixed with sand the grain size 0.063 –0.25 mm 1:1 and applied with triangular teathed trowel
Properties:	Primer:	diffusible
	Sealing:	diffusible, lightly mechanically and chemically resistant
	Self-levelling coat:	mechanically strongly durable
		• Meets the requirements of emission class EC 1 PLUS according to GEVEMICODE classification criteria (test report number ECO Institute: 58607-A001-A002-EC-L).
Substrate:		• Cement-based substrate like rendering, cement screed or concrete on well compressed rolled or mastic asphalt as well as anhydride or magnesite screed
		• Residual moisture: < 5% cement-based substrate 1% weight anhydride screed

Technical Data

Colour:	Approx. RAL 7032; more colours on request
Pack size:	10 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. 1.63 g/cm ³
Adhesive pull strength: EN 1542	> Concrete fracture
Shore hardness: ISO 7619-1:2012	D > 70
Solid parts	Approx. 75 %
Viscosity (25 °C, V03.4): EN ISO 2884-1:2006	Componente A: 800 – 1200 mPas Componente B: 600 – 900 mPas
Mixing ratio:	1 : 5 (by weight) 1 : 3.3 (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 137

Watery EP resin



Processing Data:

Material usage:**As sealing:**

200 - 300 g/m² per layer
400 - 600 g/m² per double layer

As primer:

150 - 200 g/m²

As self-levelling coat:

1.8 - 3 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 – 25 minutes (30 °C)
35 – 45 minutes (20 °C)
70 – 90 minutes (10 °C)
End of pot life is visible

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:

- Short or medium piled roller, paints grids, tooth rake and spiked roller.
 - Tools to be cleaned with water, not with solvents!
-

Mixing:

- Pour the resin compound completely into the curing agent.
 - 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:**Sealing + primer:**

- The product is to be applied using a paint grid and spread evenly in a cross shaped pattern with a short or medium piled roller.
 - In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.
 - Within the revision time the sealing can be applied directly onto the primer.
 - If the revision time has been exceeded the primer has to be prepared with fire-dried quartz sand (anti-skid coat) in a fresh condition or when fully cured to be casted and prepared for further layers.
-

Self-levelling coating:

- Product to be poured over desired area and evenly spread across the whole surface with a triangular teathed trowel.
- If needed, the layer can be vented with a spiked roller. The layer only has to be vented because of issues with the underground.

GI 137

Watery EP resin



- In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.
- For a better cleanability of the floor we recommend to re-seal the selflevelling layer one more time with GI 137 top coat.

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 wb < 140 g/l VOC
Disposal:	Disposal with the assistance of a disposal specialist under consideration of the current safety data sheets.
GISCODE:	RE 20
General:	<ul style="list-style-type: none">• 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 disturbs 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.