



## GI 137

### Watery EP resin

- pigmented, watery epoxy resin
- matt
- solvent free
- universally useable

<b>Product description:</b>	GI 137 is a water based, filled and pigmented dual-component reaction plastic based on epoxy resin for the inside usage.	
<b>Usage area:</b>	In floors of garages, industrial warehouses, basements and walls, workshops	
<b>Usage:</b>	as primer:	GI 137 is dilutable with up to 20% water and then to be directly applied to the substrate
	as sealant:	ready to be applied without needing to be diluted
	as self-levelling coat:	to be mixed with sand the grain size 0.063 – 0.25 mm 1:1 and applied with triangular teathed trowel
<b>Properties:</b>	Primer:	diffusible
	Sealant:	diffusible, lightly mechanically and chemically resistant
	Self-levelling coat:	mechanically strongly durable
<b>Underground:</b>	<ul style="list-style-type: none"><li>• cement bound substrate like rendering, cement screed or concrete on well compressed rolled or mastic asphalt as well as anhydride or magnesite screed</li><li>• Residual moisture: &lt; 5% cement-based substrate 1% weight anhydride screed</li></ul>	

### Technical Data:

<b>Colour:</b>	RAL 7032; more colours on request
<b>Package item:</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:</b>	Approx. 1.63g/cm <sup>3</sup>
<b>Adhesive pull strength:</b>	> Concrete fracture
<b>Solid parts:</b>	Approx. 75%
<b>Viscosity (25°C, V03.4):</b>	Component A: 800-1200 mPas Component B: 600-900 mPas
<b>Mixing ratio:</b>	1 : 5 (by weight) 1 : 3.3 (by volume)
<b>UV-resistance:</b>	A slight colour change and some chalking is expected
<b>Chemical resistance:</b>	When completely cured resistant against: Water, sea and waste water, a number of brines, diluted acids, saline solutions, mineral oils, lubricants, fuels and a number of solvents (with some materials a change in colour is possible). We advise to do some testing yourself depending the intended use.

## Processing data:

<b>Material usage:</b> <b>As sealant:</b>  <b>As primer:</b> <b>As self-levelling coat:</b>	200-300 g/m <sup>2</sup> per layer 400-600 g/m <sup>2</sup> per double layer 150-200 g/m <sup>2</sup> 1.8-3 kg/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>	15 – 25 minutes (30 °C) 35 – 45 minutes (20 °C) 70 – 90 minutes (10 °C) End of pot life is visible
<b>Revision time: (50% air humidity):</b>	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
<b>Curing time (complete mechanical stress at 50 % air humidity):</b>	3 Tage (30 °C) 7 Tage (20 °C) 10 Tage (10 °C)
<b>Processing temperature:</b>	10 – 30 °C

## Application:

<b>Preparation of the substrate:</b>	<ul style="list-style-type: none"><li>• Substrate needs to be dry, clean, rough, stable and free of separating substances like oil, fats etc.</li><li>• Has to be sanded or shot-blasted (except cement bound substrate). Depending on the preparation work, the surface may be rough in some places which will influence the consumption.</li></ul>
<b>Tools:</b>	<ul style="list-style-type: none"><li>• Short or medium piled roller, paints grids, tooth rake and spiked roller.</li><li>• Tools to be cleaned with water, not with solvents!</li></ul>
<b>Mixing:</b>	<ul style="list-style-type: none"><li>• Let the resin component completely flow into hardener compound.</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, if necessary, dilute with water and mix again.</li><li>• Before applying to the substrate make sure to have an even and smear-free mixture.</li></ul>
<b>Application:</b> <b>Sealant + primer:</b>	<ul style="list-style-type: none"><li>• Evenly spread with short or medium piled roller on wall with the usage of a paint grid in a cross shaped pattern.</li><li>• On large surfaces it is important to avoid a long gap between the applying of different sections of the same layer, otherwise a difference in colour or texture may be seen.</li><li>• Within the revision time the sealant can be applied directly onto the primer.</li><li>• 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.</li></ul>
<b>Self-levelling coat:</b>	<ul style="list-style-type: none"><li>• Product to be poured over desired area and evenly spread across the whole surface with a triangular teethed trowel.</li></ul>

- If needed, the layer can be vented with a spiked roller. The layer only has to be vented because of issues with the underground.
- On large surfaces it is important to avoid a long gap between the applying of different sections of the same layer, otherwise a difference in colour or texture may be seen.
- For a better cleanability of the floor we recommend to re-seal the selfleveling layer one more time with GI 137 top coat.

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**Processing conditions:**

- The material, air and ground temperature has to be between 10°C and 30°C during the processing, installation and curing time.
  - The underground temperature has to exceed 3°C above 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 underneath the ground. It is important to keep an eye on the venting during and after the application. The area has to be protected from any direct water contact during the whole curing time.
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**Further information:**

<b>CE label:</b>	DIN EN 13813: 2002 DIN EN 1504-2: 2004
<b>Sichere Handhabung:</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-contents:</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 20

**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.

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