



## GI 613

### Watery sealing

- Glossy
- Low emission
- Lightfast

<b>Product description:</b>	GI 613 is a water based, non-filled or pigmented sealing based on a dual-component, lightfast polyurethane resin for mineral and reaction resin bound substrates.
<b>Usage area:</b>	Inside areas: living rooms, lounges schools, hospitals, showrooms and comparable object
<b>Usage:</b>	<ul style="list-style-type: none"><li>• Top coat for layer thickness between 80 and 150 µm</li></ul>
<b>Properties:</b>	<ul style="list-style-type: none"><li>• Medium mechanically and little chemically resistant</li><li>• Good mechanical resistance and lightproof</li><li>• Good abrasion resistance</li><li>• Easy to clean</li><li>• AgBB compliant according to the formulation</li></ul>
<b>Substrate:</b>	<ul style="list-style-type: none"><li>• Designed to the use on new mineral substrates</li><li>• Residual moisture: &lt; 4 % cement-based substrates (by CM method)</li></ul>

### Technical Data:

<b>Colour:</b>	Transparent, glossy
<b>Package size:</b>	5 kg, 10 kg; other units on request
<b>Storage life:</b>	From production date 12 months; store in original containers; dry, cool, frost free. <b>Attention:</b> Frost can irreversibly damage the product. Storage at temperatures > 30 °C can increase the number of medium sized particles which leads to a higher risk of sedimentation and coagulation.
<b>Density at 23°C / 50 % air humidity: EN ISO 2811-1:2011</b>	Approx. 1.05 g/cm <sup>3</sup>
<b>Adhesive pull strength: EN 1542</b>	> concrete fracture
<b>Solid parts:</b>	Approx. 37.5 %
<b>Viscosity (25 °C, V03.4): EN ISO 2884-1:2006</b>	Component A: 50 – 80 mPas Component B: 1640 – 2440 mPas
<b>Mixing ratio:</b>	5 : 1 (By weight) 5.5 : 1 (By volume)
<b>UV-resistance:</b>	Polyurethanes with this composition only have a very small chance of colour change and chalking when under influence of UV-radiation. Due to the permeability of plastics to UV-radiation it is necessary to take into account, that the lightfast coating system components need to have this property as well.
<b>Chemical resistance:</b>	When completely cured resistant against: Water, sea and wastewater, a number of brines, diluted acids, saline solutions, mineral oils, lubricants, fuels and many 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>	80 – 150 g/m <sup>2</sup> per layer
<b>Open time in the container (at 50% air humidity)</b>	Approx. 2 hours (20 °C)
<b>Processing time (at 50 % air humidity)</b>	15 – 20 minutes (30 °C) 25 – 35 minutes (20 °C) 50 – 60 minutes (10 °C)
<b>Revision time (at 50 % air humidity)</b>	Min. 2 - 3 hours, max. 12 hours at 30 °C Min. 4 - 15 hours, max. 24 hours at 20 °C Min. 9 - 13 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:

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<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 sealing is carried out directly on a new, cement-bound substrate, an intensively cleaned old coating or, within the revision-time, on a new coated area.</li><li>• On polymer-modified, cement-bound substrates, samples areas have to be applied in advance to test the compatibility.</li></ul>
<b>Tools:</b>	<ul style="list-style-type: none"><li>• Short or medium piled roller, paint grid</li></ul>
<b>Mixing:</b>	<ul style="list-style-type: none"><li>• Pour the curing agent completely into the resin 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><li>• The GI 613 is finished and ready to go. Though if necessary, the mixed product can be diluted with water up to 5 %.</li></ul>
<b>Application:</b>	<ul style="list-style-type: none"><li>• After mixing the resin and hardener component wait 15 minutes for ripe time and stir up again!</li><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>• In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.</li></ul>

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<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 has to be always between 40 % and 80 %.</li> <li>• 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 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. Leaflet M044, production and processing of Polyurethanes and isocyanates. 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>	PU40

#### 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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