



GI 631

Watery sealing

- **Matt**
- **Low emission**
- **Pigmented**
- **Lightfast**

Product description:	GI 631 is a solvent-free, water based and pigmented sealing based on a dual-component, lightfast polyurethane for reaction resin bound substrates.
Usage area:	Inside area: Living rooms, lounges, schools, hospitals, showrooms and similar areas.
Usage:	<ul style="list-style-type: none">• Matt sealing for layer thicknesses between 80 µm and 150 µm
Properties:	<ul style="list-style-type: none">• Medium mechanically and chemically resistant• Good scratch resistance and lightfast• After sufficient curing time (min. 36 h): Good abrasion resistance and easy to clean• AgBB compliant according to the formulation
Substrate:	<ul style="list-style-type: none">• On mineral based substrates priming with GI 613 is necessary.

Technical Data:

Colour:	RAL 7032; more colours on request
Package size:	5 kg, 10 kg; other units on request
Storage life:	From production date 12 months; store in original containers; dry, cool, frost free. Remark: Frost can irreversibly damage the product. Storage at temperatures > 30 °C may can increase the number of medium sized particles which leads to a higher risk of sedimentation and coagulation.
Density at 23°C / 50% air humidity: EN ISO 2811-1:2011	Approx. 1.14 g/cm ³
Adhesive pull strength: EN 1542	> Concrete fracture
Solid parts:	Approx. 59 %
Viscosity (25 °C, V03.4): EN ISO 2884-1:2006	Component A: 90 – 150 mPas Component B: 1600 – 2500 mPas
Mixing ratio:	7 : 1 (By weight) 7 : 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, 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:

Material usage:	80 – 150 g/m ² per layer For critical colours or colour change 2 – 3 layers are necessary. These values are dependent on how the product is processed and on the substrate. The values are therefore only for a rough estimate.
Open time in the container (at 50% air humidity):	Approx. 3h (20 °C)
Processing time (at 50% air humidity)	8 – 10 minutes (30 °C) 12 – 18 minutes (20 °C) 25 – 30 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 resilience 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.• The application is made onto a newish, cement-bound substrate which has gone through a thorough cleaning process or applied within the revision time onto a freshly coated surface.
Tools:	<ul style="list-style-type: none">• Short or medium piled roller, paint grids
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, if necessary, dilute with water and mix again.• Before applying to the substrate make sure to have an even and smear-free mixture.• GI 631 is finished and ready to go. Though if necessary, the mixed product can be diluted with water up to 5 %.
Application:	<ul style="list-style-type: none">• After mixing resin and hardener component, let the mixture rest for 15 minutes and mix again!• The product to be spread in a cross pattern with a short or medium piled roller with the help of a paint grid.• In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.• While hardening, the product is extremely sensible towards dirt. Therefore, we advise to use shoe covers for the final coat and let the final layer rest for at least 36 h (at 20 °C).

Processing conditions:	<ul style="list-style-type: none"> • 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 has to be always between 40 % and 80 %. • 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.
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Further information:

CE-label:	DIN EN 13813: 2002
Safe handling:	The product is intended for professional use. Leaflet M044, production and processing of Polyurethanes and isocyanate. Please note the current safety data sheets.
VOC-contents:	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:	PU 40

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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