

GI 631

Watery sealing

- Matt
- Pigmented
- Low emission
- Lightfast



GREMMLER®
BAUCHEMIE

Product description: GI 631 is a solvent-free, water-based and pigmented sealing based on a dual component, light stable polyurethane resin for mineral and reaction-resin bound substrates.

Usage area:

- Inside areas: living rooms, lounges schools, hospitals, showrooms and comparable object

Usage:

- Matt sealing for layer thicknesses between 80 µm and 150 µm

Properties:

- Medium mechanically and little chemically resistant
- Good scratch resistance and lightfast
- After sufficient curing time (minimum 36 hours) good abrasion resistance and easy to clean
- AgBB compliant according to the formulation

Substrate:

- On mineral based substrates priming with GI 613 is necessary

Technical Data

Colour: Approx. RAL 7032; more colours on request

Pack size: 5 kg, 10 kg; other units on request

Storage life: From production date 12 months; store in original containers; dry, cool, frost free

Attention:

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.

Density at 23°C / 50 % air humidity: Approx. 1.14 g/cm³

EN ISO 2811-1:2011

Adhesive pull strength: > Concrete fracture

EN 1542

Solid parts Approx. 59 %

Viscosity (25 °C, V03.4): Component A: 90 – 150 mPas

EN ISO 2884-1:2006 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, 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.

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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. 3 hours (20 °C)
Processing time (50 % air humidity):	8 – 10 minutes (30 °C) 12 – 18 minutes (20 °C) 25 – 30 minutes (10 °C)
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:	<ul style="list-style-type: none">• Substrate must be dry, clean, rough, stable and free of separating substances like oil, fats etc.• The sealing is carried out directly on a new, cement-bound substrate, which is primed with GI 613, an intensively cleaned old coating or, within the revision-time, on a new coated area.
Tools:	<ul style="list-style-type: none">• Short or medium piled roller, paint grid
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 mix again.• Before applying to the substrate make sure to have an even and smear-free mixture.• The GI 631 is finished and ready to go. If necessary, after the ripening time the mixed product can be diluted with water up to 5 %.
Application:	<ul style="list-style-type: none">• After mixing the resin and hardener component wait 15 minutes for ripe time and stir up again!• Evenly spread with short or medium piled roller on wall with the usage of a paint grid in a cross shaped pattern.• In case of bigger areas care must be taken to work on in time in order to minimize overlapping traces and colour differences.• While curing, GI 632 is susceptible to dirt. We advise to use shoe covers during the application and the final layer needs a minimum rest of 36 hours (20 °C).

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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 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 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. Leaflet M044, production and processing of Polyurethanes and isocyanates. 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:	PU 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.