

GI 107-001

Water based sealing

- Transparent
- Semi-gloss
- Low solvent



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| Product description: | GI 107-001 is a water based, unfilled and non-pigmented dual component reaction plastic based on epoxy resins |
| Usage area: | <ul style="list-style-type: none">• Inside area: Floors in workshops, industrial halls, garages, basements and walls |
| Usage: | <ul style="list-style-type: none">• Top coat in layer thicknesses between 80 µm and 150 µm |
| Properties: | <ul style="list-style-type: none">• Medium mechanically and slightly chemically resistant• Diffusible• Good abrasion resistance• Easy to clean |
| Substrate: | <ul style="list-style-type: none">• Designed to the use on new mineral substrates• Residual moisture: < 6 % cement-based substrate (tested by CM) |

Technical Data

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| Colour: | White, cured almost transparently |
| 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. 1.06 g/cm ³ |
| Adhesive pull strength: EN 1542 | > Concrete fracture |
| Solid parts | Approx. 48 % |
| Viscosity (25 °C, V03.4): EN ISO 2884-1:2006 | Component A: 240 – 360 mPas Component B: < 100 mPas |
| Mixing ratio: | 1 : 2 (by weight) 1 : 2.05 (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:

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| Material usage: | 80 - 150 g/m ² per layer 160 – 300 g/m ² as two-layer application These values are dependent on how the product is processed and on the substrate. The values are only for a rough estimate. |
| Open time in the container (at 50 % air humidity): | Approx. 2 hours (20 °C) End of pot life is visible |
| Processing time (50 % air humidity): | 15 – 25 minutes (30 °C) 35 – 45 minutes (20 °C) 70 – 90 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:

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| 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-based substrate, 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• Tools to be cleaned with water, not with solvents! |
| 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. |
| Application: | <ul style="list-style-type: none">• 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. |
| 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 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. |

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Further information:

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| 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 50 |

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.