

# GREBOPOX®

## Ballast bonding resin

- EP binder
- Low viscous with very good wetting properties
- Very good residual moisture stability
- Total Solid according to the test method of Deutsche Bauchemie



**GREMMLER®**  
**BAUCHEMIE**

<b>Product description:</b>	GREBOPOX® is an unfilled and non-pigmented epoxy resin based dual-component, reaction plastic.
<b>Usage area:</b>	<ul style="list-style-type: none"><li>• Bonding of ballast e.g. Stone size K1 (32-63 mm) or K2 (16-22 mm) or other materials.</li></ul>
<b>Usage:</b>	<ul style="list-style-type: none"><li>• Bonding of ballast or other materials especially for the bonding of hard rock bulks (gravel / ballast) via two-component spray unit.</li></ul>
<b>Properties:</b>	<ul style="list-style-type: none"><li>• Low viscous with very good wetting properties</li><li>• Very good chemical resistance</li><li>• Good moisture stability even with matt damp stones</li><li>• Approval from the Federal Railway Authority for use on German railway tracks</li></ul>
<b>Substrate:</b>	<ul style="list-style-type: none"><li>• Suitable substrates are epoxy or polyurethane resin based bonding, concrete as well as hard rocks (granite, porphyry, basalt, etc.).</li></ul>

## Technical Data

<b>Colour:</b>	Transparent, yellow
<b>Pack size:</b>	30 kg, 600 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: EN ISO 2811-1:2011</b>	Approx. 1.08 g/cm <sup>3</sup>
<b>Shore hardness: ISO 7619-1:2012</b>	D > 80
<b>Solid parts</b>	Approx. 98 %
<b>Viscosity (25 °C, V03.4): EN ISO 2884-1:2006</b>	Component A: 560 - 840 mPas Component B: 380 - 570 mPas
<b>Mixing ratio:</b>	2 : 1 (By weight) 1.8 : 1 (By volume)
<b>UV-resistance:</b>	A slight change in colour and some chalking is expected.
<b>Chemical resistance:</b>	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.



### Processing Data:

<b>Material usage:</b>	0,15 – 3,5 kg/m <sup>2</sup> as ballast bonding by spraying These values are dependent on how the product is processed and on the substrate. The values are only for a rough estimate.
<b>Processing time (50 % air humidity):</b>	10 – 15 minutes (30 °C) 20 – 25 minutes (20 °C) 70 – 100 minutes (5 °C)
<b>Revision time (50 % air humidity):</b>	Min. 4 – 6 hours, max. 12 hours at 30 °C Min. 8 – 10 hours, max. 24 hours at 20 °C Min. 32 – 40 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>	From 1 °C substrate temperature

### Processing:

<b>Preparation of the substrate:</b>	<ul style="list-style-type: none"><li>• Adhesion of dirt at the gravel and ballast affects the strength, increases the material consumption and reduces the penetration of the binding agent.</li></ul>
<b>Tools:</b>	<ul style="list-style-type: none"><li>• Two-component spray unit</li></ul>
<b>Application:</b>	<ul style="list-style-type: none"><li>• The product is applied to the ballast bonding using a 2-component spray system.</li><li>• The binder can be preheated.</li></ul>

### Further information:

<b>Safe Handling:</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-Content:</b>	VOC-directive 2004/42/EG: Category IIA/j type Ib < 500 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 30

#### 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.