GP 14

PASTE-LIKE 2K-EP CONSTRUCTION ADHESIVE

GP 14 is a pasty two-component adhesive based on epoxy resin that cures at room temperature. based on epoxy resin. The thixotropic paste is characterised by good contact adhesion and toughness and has excellent resistance to environmental influences and chemicals.
GP 14 is used for bonding metal and electronic components with GVK components. GVK components. It is used in a variety of components in applications where higher than normal temperatures or more demanding environmental conditions prevail.
Due to its low outgassing, this product is also suitable for applications in electronic communication and aerospace.

- High heat resistance and resistance to chemicals
- grey paste
- Temperature resistance up to 120 °C (ZSF of 5 N/mm²)
- Excellent resistance to water and a wide range of various chemicals
- joint-filling, does not run at application densities of up to 5 mm
  running off
- low shrinkage

PHYSICAL SPECIFICATIONS

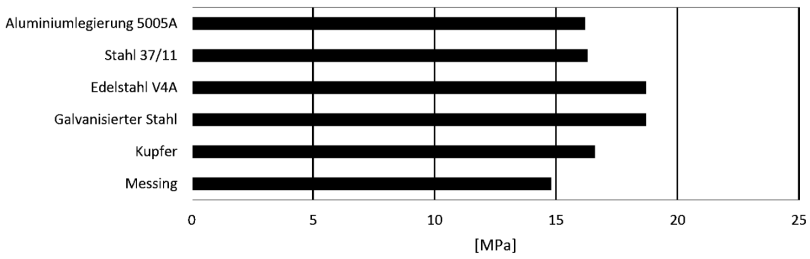
		GP 14 A / RESIN	GP 14 B / HARDER
Colour	optical	beige paste	grey paste
Viscosity at 25 °C (DIN 53019-1)	mPa·s	80.000-13.000	thixotropic
Density (ISO 1183)	g/cm³	approx. 1.6	approx. 1.6

Mixture HARZ/HÄRTER		GP 14 A/B
Mixing ratio by weight		100 : 50
Mixing ratio by volume		100 : 50
Colour	optical	grey
Density (ISO 1183)	g/cm³	approx. 1.6
Viscosity at 25 °C (DIN 53019-1)	mPa·s	thixotropic
Processing time at 25 °C for 500 ml	min	50-70

THERMAL AND MECHANICAL SPECIFICATIONS			
			GP 14 A/ GP 14 B
Heat deflection temperature, HDT	ISO 75	°C	61
Flexural strength	ISO 178	MPa	53-58
Modulus of elasticity from flexural strength	ISO 178	MPa	4.000-4.500
Tensile shear strength Aluminium sandblasted	ISO 4587	MPa	15-18
Tensile shear strength Stainless steel sandblasted	ISO 4587	MPa	17-20

Curing: 7 days at RT or 14 hours/40 °C

Typical tensile shear strengths of metal bonds (ISO 4587)
Curing: 16 hours at 40 °C; test temperature: 23 °C



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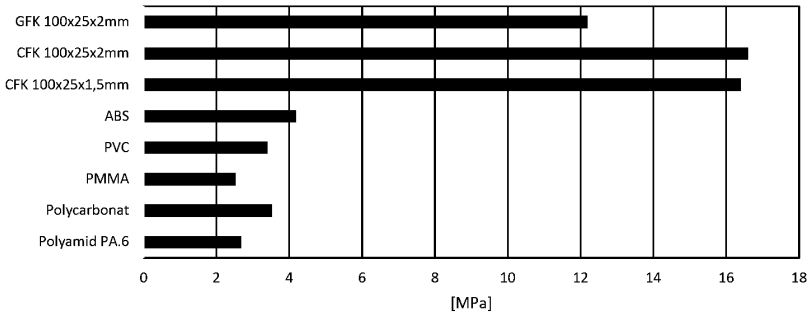
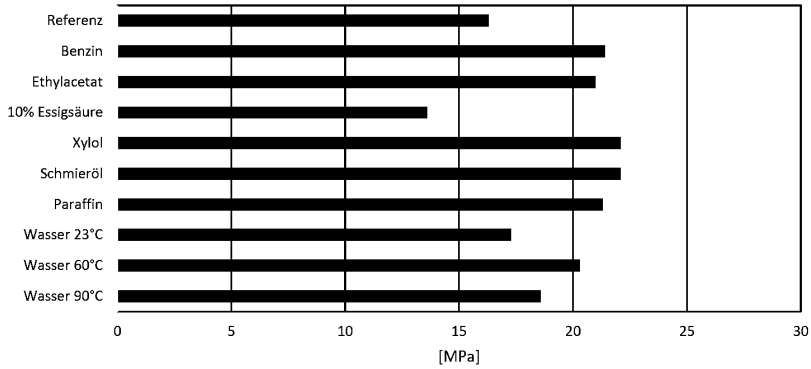
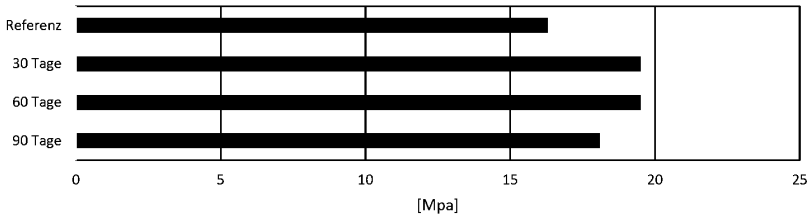
Typical tensile shear strengths of plastic bonds (ISO 4587)
Curing: 16 hours at 40 °C; test temperature: 23 °C



Typical tensile shear strengths of metal bonds after media storage (ISO 4587)
Curing: 16 hours at 40 °C; storage time: 90 days at 23 °C; test temperature: 23 °C



Typical tensile shear strengths of metal bonds after heat storage (ISO 4587)
Curing: 16 hours at 40 °C; storage temperature: 70 °C; test temperature: 23 °C



PROCESSING INSTRUCTIONS

GP 14 is available in cartridges complete with mixer and can be used as a ready-to-use adhesive with the tools recommended by Gößl + Pfaff GmbH.

PREPARATION OF THE SURFACES TO BE JOINED
The prerequisite for achieving strong and durable bonds is appropriate pre-treatment of the bonding surface. The bonding surfaces are best cleaned thoroughly of oil, grease and dirt using a good grease solvent such as acetone spray (Art. No. 3066), alcohol or a company-specific grease solvent.
The best strength is achieved when the degreased bonding surfaces are mechanically roughened or chemically pre-treated. After mechanical roughening, further degreasing is essential.

APPLYING THE ADHESIVE
The resin/hardener mixture is applied manually or mechanically to the pre-treated and dry bonding surfaces.
Adhesive joints with a thickness of 0.05 to 0.10 mm generally provide the best tensile shear strength. It is emphasised that a proper adhesive joint is essential for a durable bond. The adhesive components should be arranged and secured in a fixed position once the adhesive has been applied.

CLEANING THE TOOLS
All tools are best cleaned with hot water and soap before adhesive residues can harden.
Removing hardened residue is tedious and time consuming.
When using a solvent such as acetone, the usual precautions must be observed.
In addition, avoid contact with skin and eyes.

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SAFETY DATA SHEETS / ARTICLE INFO

https://shop.goessl-pfaff.de/art/gp14050kt
https://shop.goessl-pfaff.de/art/gp14200kt

PRECAUTIONARY MEASURES

Chemicals can be processed safely, but the specific precautionary measures must be observed and the risk assessment from your company must be followed.
Chemicals must be kept away from food. To avoid injuries and allergic reactions, the use of personal protective equipment such as impermeable rubber or plastic gloves, safety goggles and disposable protective clothing is mandatory. Please refer to the safety data sheet for detailed information.
Hands must be washed thoroughly with warm water and soap before breaks and visits to the toilet and after each working day. Then dry the skin with disposable paper towels - not textiles (see skin protection plan). The use of solvents to clean the skin is not recommended.
Ensure adequate ventilation and/or extraction in work areas.

STORAGE

GP 14 can be stored unopened and dry at temperatures of 15-30 °C in its original container.
The expiry date is indicated on the product labelling.

NOTE

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