LiqRep Plastic
2C repair adhesive

Description and applications

LiqRep Plastic is a fast-hardening polyurethane adhesive made up of two components. The components are automatically mixed by a mixing nozzle when the adhesive is applied to the correct mixing ratio. The adhesive is applied using a manual dosing gun.

The repair adhesive is ideally suited for joining and repairing (filling or gluing holes, cracks, joints) of plastic parts in body and vehicle construction (such as bumpers, radiator grilles, spoilers, aprons, wheel arches, brackets and clips). The connection/repair points can be machined mechanically after 15–20 minutes (drilling, grinding, cutting) and overpainting.

Polyurethane adhesive bonds excellently on plastics (e.g. PMMA, ABS, PC, PVC, PA6, HPL, PS, GFK) as well as rubber/elastomers and a variety of other materials.

No isocyanate license is required for the user.

1. Technical data

Color	Black
Working temperature	Optimally at +22 °C
Processing time / pot life	60 –90 seconds
Sandable / overpaintable	15–20 minutes
Complete curing	24 hours
Resistant to	UV light, water, salt water, oil, solvents, coolants, fuels and many chemicals
Chemical basis	Polyurethane
Components A: / B:	A: Polyol / B: Isocyanate
Viscosity (At 25 °C, Brookfield viscosimeter)	A: 90 000 mPAS / B: 120 000 mPAS
Density (Measured in accordance with DIN 53217, part 2 density sphere model 475/III)	A: 1.2 g/ml / B: 1.2 g/ml

ElringKlinger AG | Aftermarket Division
Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany
Phone +49 7123 724-799
service@elring.com | www.elring.com

Das Original

LiqRep Plastic
2C repair adhesive

1. Technical data

Tensile shear strength	7–10 N/mm²
Temperature resistance	-40 °C to +120 °C
Shore hardness D (ASTM D638)	65 Sh–70 Sh
Gap filling capacity	30 mm

2. General information

2.1 Areas of application

- Excellent adhesion on a wide range of materials:
  - Plastics (e.g. PMMA, ABS, PC, PVC, PA6, HPL, PS, GFRP)
  - Various rubber/elastomers
  - Metals (e.g. steel, stainless steel/V2A, aluminum, copper, brass)
  - Wood, stone, glass
- For adhesion of PP, PE, flame the surfaces beforehand (0.5 to 1 second)
- Not suitable for use on PTFE

2.2 Safety instructions

- Safety data sheet and all safety instructions.
- Wear protective equipment such as protective gloves, protective clothing and eye protection.
- No isocyanate license required.
- Only use in a well-ventilated location. Avoid breathing in fumes.
- Application by specialist personnel only.
- Disposal of the product in accordance with official regulations.
- More information can be found in our Elring application video.

2.3 Application

- The optimum working temperature is approx. 22 °C.
- The surfaces must be free of oil, grease, dirt or other impurities.
  Clean with isopropyl alcohol if necessary. If possible, sand the surfaces slightly beforehand.
  Flame PP or PE briefly beforehand (max. 0.5 to 1 second)
- Screw the sealing cover on the 2C adhesive cartridge 90° counter-clockwise and remove the cover at an angle.

ElringKlinger AG | Aftermarket Division
Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany
Phone +49 7123 724-799
service@elring.com | www.elring.com

Das Original

LiqRep Plastic
2C repair adhesive

2.3 Application

- Place the mixing nozzle on the cartridge opening and turn 90° clockwise to the lock.
- Insert he 2C adhesive cartridge into the dosing gun.
- Discharge the 2C adhesive via the mixing nozzle and discard a small quantity of material (approx. 2 cm). This ensures complete mixing of both components in the mixing nozzle.
- Fill the adhesive point or filling point and, if necessary, model the surfaces within the short processing time of 60 –90 seconds.
- No longer move after starting the curing process. Fix the parts to be connected if necessary.
- Sandable and overpaintable after approx. 15–20 minutes.
- Before commissioning, allow the product to completely cure for 24 hours.

2.4 Storage and durability

- Store unopen, cool, dry and dark at +10 °C to +20 °C.
- Unopen, has a maximum shelf life of 18 months.
- Higher storage temperatures can reduce service life.

2.5 Delivery form

Item no.	Package contents	Fill quantity	VPE	CLP Label
B53.900	2C cartridge Incl. mixing nozzles	50 ml -	1 unit 2 units	AT / BE / CH / DE / ES / FR / GB / IE / IT / LU / MT / NL / PT
B54.250	2C cartridge Incl. mixing nozzles	50 ml -	1 unit 2 units	BG / CY / CZ / EE / GR / HR / HU / LT / LV / PL / RO / SK / SL
B50.970	Mixing nozzles Bulk pack	-	10 units	
B50.960	Dosing gun for 50 ml cartridge	-	1 unit	

ElringKlinger AG | Aftermarket Division
Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany
Phone +49 7123 724-799
service@elring.com | www.elring.com

Das Original

LiqRep Plastic
2C repair adhesive

2.5 Delivery form

Item no.	Package contents	Fill quantity	VPE	CLP Label
B50.950	2C cartridge Plastic 2C cartridge Metal Incl. Mixing nozzles Bulk pack Incl. Dosing gun for 50 ml cartridge	50 ml 50 ml - -	1 unit 1 unit 10 units 1 unit	AT / BE / CH / DE / ES / FR / GB / IE / IT / LU / MT / NL / PT / PL

2.6 Safety data sheets / application video

Safety Data sheets

Application video LiqRep Plastic

Application video LiqRep Metal

ElringKlinger AG | Aftermarket Division
Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany
Phone +49 7123 724-799
service@elring.com | www.elring.com

Das Original

2.7 Exclusion of liability

The above specifications in this technical data sheet, in particular the suggestions for processing and usage of our products, are based on our current knowledge and experience.

As a result of the varied possible uses and the fact that the usage and working conditions are outside our area of influence, we accept no liability for the suitability of our products for a particular production process under specific working conditions, or for the intended processing purposes and results. To ensure suitability, we recommend that adequate independent trials and tests are always performed in advance.

Any liability resulting from the information in this technical data sheet and from other written or verbal advice for the product in question is explicitly excluded, unless a case of injury, death or health problems arises that is due to intent or gross negligence on our part, or we are subject to liability under mandatory product liability law.

ElringKlinger AG | Aftermarket Division
Max-Eyth-Straße 2 | 72581 Dettingen/Erms | Germany
Phone +49 7123 724-799
service@elring.com | www.elring.com

Das Original