

TECHNICAL DATA SHEET

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Fast-acting epoxy resin adhesive ESK-50

Fields of application:

The fast-acting epoxy resin adhesive ESK-50 is a fast curing two-component adhesive, which has a wide range of uses in production, assembly and repairs. It can be used to bond various materials with high tensile strength and impact strength and excellent resistance to flaking and shocks. Because the fast-acting adhesive is transparent it is suitable for joints where visual appearance is important and is therefore an ideal composite for a wide range of applications such as sticking stainless steel sheets together, repairing plastic and metal components that have broken off, manufacturing printed circuit boards etc.

Substrates:

steel, galvanised steel, stainless steel, aluminium, copper, brass, coated or galvanised metals, sanded glass fibre-reinforced plastic, ABS, hard PVC, SMC, glass, ceramic, concrete, fibre-reinforced plastic/SMC, wood, polyurethane etc.

Properties:

- Fast curing
- Broad range of applications
- High tensile strength values
- Excellent resistance against water, petrol and oil
- Viscoplastic
- Can be sanded
- High transparency
- Resistant against ageing and media

Application:

The surfaces to be adhered must be free from dust, oil, grease or other contamination.

The mixer nozzle is attached to the double cartridge of the ESK-50 and the cartridge is inserted into the gun. Carry out a quick dispensing test on a suitable test piece before use. After mixing, the adhesive should be applied onto the surfaces to be adhered immediately. The adhesion must be

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evenly pressed until final strength is achieved. The best adhesive bonding strengths are achieved with a maximum bonding gap of 0.1 mm. The curing time is dependent on the temperature.
If work is interrupted for longer than 3 minutes, change the positive mixer.

Technical data:

Chemical basis	Epoxy resin
Colour	Colourless, transparent
Density*	1.07–1.13 g/cm ³
Viscosity	8000–11,000 mPa.s
Working time*	Approx. 4 min
Processing temperature	RT
Temperature resistance	-60°C up to +100°C
Permanently set after	48 hours
Shore D hardness (DIN 53505)	75–85
Tensile shear strength	> 20 N/mm ² on steel
Storage temperature	+2 to +30°C (Protect from direct sunlight and frost.)
Shelf life	36 months (cool and dry)

* Measured at 23 °C/50% relative humidity

Remarks:

Adhesive not completely cured can be removed with acetone cleaner, art. no. 0893 460.
The reaction can be accelerated by applying heat of +80 °C.

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We recommend that users of our products perform their own tests in order to determine whether our products are appropriate for the respective use and environment. We guarantee the consistent quality of our products. We reserve the right to implement technical changes and improvements.