

Technical Data Sheet



technicoll® 9433

Very fast curing 2-component PUR adhesive, black

Field of application

technicoll® 9433 is a fast curing, black 2-component polyurethane adhesive for bonding and repairing metals, thermosets and thermoplastic polymers.

Special characteristics

- Very short pot life, quick handling strength
- Very high strength at breaking point and viscoplastic characteristics
- Excellent suitability at dynamical, sudden loads
- Very good resistance to ageing
- No sagging on vertical surfaces

Handling data and product data

Proportion of Mixture	technicoll® 9433 A	technicoll® 9433 B	Adhesive
Mixing ratio (volume)	100	100	
Density	1.5 g/cm ³	1.1 g/cm ³	1.3 g/cm ³
Viscosity (+25 °C)	thixotropic	fluently	thixotropic
Colour	black	amber	black
Pot life (+25 °C)	8 minutes		
Handling strength	approx. 60 minutes		
Shore A-hardness	approx. 70		
Breaking point	300 %		
Temperature resistance	approx. -40 °C to +80 °C		
Processing temperature	+15 °C to +30 °C		
Way of application	one-sided		
Dilution	not possible		
Cleaning agent / material	technicoll® 8363 technicoll® 9901 (metal cleaning spray) technicoll® 9902 (plastics cleaning spray)		
Cleaning agent / tool	technicoll® 8362, technicoll® 9901 (spray)		
Cleaning	Solid adhesive can only be removed mechanically.		
Maximum time of storage	At least 9 months for cartridges when stored in sealed original packaging in cool and dry places.		
Preferred storage temperature	+10 °C to +25 °C		
Behaviour at low temperature	Not susceptible to frost. Densification at low temperature. Once adjusted to processing temperature: fully employable.		

Favoured substrates

- metals
- thermosets and thermoplastics
- glass
- derived timber products

Not suitable for: PE, PP, PTFE (Teflon®), POM, silicone, EPDM, PVC-p (faux leather)

Due to the large variety of possible materials and differences in adhesion behaviour hazard tests are mandatory before introducing the adhesive into the actual production process.

Surface preparation

Bonding surfaces must be dry and clean, especially free of oil, grease or release agents. In many cases, roughening the surface to be bonded improves bond strength. It is generally recommended when bonding rubber and metal.

Adhesion

Position cartridge into the bracket of an adequate dispensing gun, lock it and remove cap. Expel a small amount of the adhesive to make sure that both components flow freely. Attach mixing nozzle and lock it. Apply adhesive in a thin bead, drop or film on the surfaces to be bonded. The joint components should be assembled and clamped within the pot life. Fix the bonded parts until adhesive is solid.

Wait for a couple of days before assessing the final strength.

Curing

At room temperature, bonded substrates can be handled after approx. 60 minutes.

Technical status: 22.12.2015

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Deviating information of earlier versions is invalid.

Special notice:

All information given on this data sheet is based on our knowledge and experience at the time of printing. The information is not binding. We advise to determine the suitability of our products with respect to their intended use and method of application. Therefore, a warranty claim cannot be granted.