

Technical Data Sheet



technicoll® 9432

2-Component polyurethane adhesive, paste-like

Field of application

technicoll® 9432 is a paste-like 2-component adhesive for bonding and repairing metals, thermosets and thermoplastic polymers.

Special characteristics

technicoll® 9432 is a paste-like, gap filling, structural adhesive for and suitable when working with mechanical loads. Cured technicoll® 9432 is and flexible and has a high resistance to weather conditions and ageing.

Handling data and product data

	technicoll® 9432 A	technicoll® 9432 B	Adhesive
Mixing ratio (volume)	100	100	
Mixing ratio (weight)	130	72	
Density	1.5 g/cm ³	1.1 g/cm ³	1.3 g/cm ³
Viscosity (+25 °C)	paste-like	paste-like	thixotropic paste
Colour	beige/greenish	translucent	beige
Pot life (+25 °C) for 100 g	35 minutes		
Solid content	100 %		
Processing temperature	+15 °C to +30 °C		
Way of application	one-sided		
Dilution	not possible		
Cleaning agent / material)	technicoll® 8363		
Cleaning agent / tool	technicoll® 9901 (metal cleaning spray) technicoll® 8362		
Cleaning	technicoll® 9901 (metal cleaning spray)		
Maximum time of storage	Solid adhesive can only be removed mechanically.		
Preferred storage temperature	At least 12 months when stored in sealed original packaging in cool and dry places.		
Behaviour at low temperature	+10 °C to +25 °C		
	Not susceptible to frost. Densification at low temperature. Once adjusted to processing temperature: fully employable.		

Favoured substrates

- metals - blank
- thermosets (CFRP, GFRP, SMC), phenoplaste (HPL)
- ceramics, stone, concrete
- 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

Joint surfaces must be dry and clean, especially free of oil, grease or release agents. In many cases grinding the surface prior to bonding improves strength of a bonded joint. 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 time. Wait for a couple of days before assessing the final strength.

Physical properties of cured adhesive

Shore hardness D1	50
Lap shear strength	6 N/mm ²
Strength at breaking point	80 %
Glass transition temperature T _g	+45 °C
Coefficient of thermal expansion (CTE)	160 10 ⁻⁶ K ⁻¹ (from -40 °C to +40 °C)
Temperature range	approx. -40 °C to +80 °C

Lap shear strength aluminium

chromsulfuric acid	10 N/mm ²
After 14 days at +75 °C	6 N/mm ²

Technical status: 22.12.2015

Deviating information of earlier versions is invalid.

page 3/3

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.