

## Technical Data Sheet

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### technicoll® 9503 Cyanoacrylate



#### Field of application

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technicoll® 9503 is suitable for bonding small area surfaces of plastics, rubbers, metals and ceramics.

#### Note

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Cyanoacrylates polymerise very quickly by moisture and/or alkaline substances when joining the substrates. Curing speed depends highly on the type of the surface and climatic conditions, especially moisture.

#### Handling data and product data

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Base	ethyl ester
Viscosity (+20 °C)	approx. 100 mPas
Density	approx. 1.0 g/cm <sup>3</sup>
Temperature resistance	approx. -55 °C to +95 °C (depending on substrate and mechanical load)
Colour	colourless, transparent
Way of application	one-sided
Processing temperature	+15 °C to +25 °C
Dilution	not possible
Cleaning agent / material	technicoll® 8363 technicoll® 9901 (metal cleaning spray) technicoll® 9902 (plastics cleaning spray)
Cleaning	Cured adhesive can be removed with technicoll® 9602.
Maximum time of storage	9 months when stored in sealed original packaging in cool and dry places.
Preferred storage temperature	+2 °C to +10 °C. Adhesive should be warmed up to room temperature before use.
Behaviour at low temperature	Densification at low temperature. Once adjusted to processing temperature: fully employable.

## Favoured substrates

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- rubber
- metals (blank, coated)
- derived timber product
- leather, textile
- PE, PP, POM, TPE (incl. pretreatment with primer technicoll® 9605-1)
- EPDM (cellular rubber)
- plastics (unplasticised)
- ceramics, porcelain
- pasteboard, paper

Not suitable for: PTFE (Teflon®), silicone, PVC-plasticised (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

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Joint surfaces must be dry and clean, especially free of oil, grease or release agents.

## Adhesion

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Apply technicoll® 9503 drop by drop to one of the surfaces to be bonded. Fix the substrates while curing.

## Curing time

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Initial strength is normally being achieved within:

Metal (steel) / metal (steel)	approx. 20 – 50 seconds
Elastomer (EPDM) / elastomer (EPDM)	approx. 2 – 5 seconds
ABS / ABS	approx. 3 – 5 seconds

## Lap shear strength

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Steel / steel	10 – 22 N/mm <sup>2</sup>
NBR / NBR	material failure

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**Technical status: 22.12.2015**

Deviating information of earlier versions is invalid.

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### 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.