

# WINKEL PRO 4W01 SUPERGLUE LL

## CYANOACRYLATE ADHESIVES



## Technical Bulletin

### Description / Uses

WINKEL PRO 4W01 SUPERGLUE Long Life superglues are developed for specific applications and are used where universal superglues do not provide an optimal result. WINKEL PRO 4W01 superglues are available in several viscosities and speeds and because of that, individual adaptations are possible to specific requirements.

- Higher stability
- Increased moisture resistance
- Stable on paper and cardboard – no soaking
- Clean and almost invisible bonding
- Fast hardening in 1 – 3 seconds
- For absorbent materials, leather, cardboard, cork, wood, foam, plastic, elastomers and metal

### Technical properties uncured product

Chemical base	Ethyl-2-cyanoacrylate monomer
Colour:	transparent
Viscosity <sup>1)</sup> [mPas]:	80-130
Density <sup>2)</sup> [g/ml]:	1,04-1,06
Flashpoint <sup>3)</sup> [°C]:	+87
Application temperature [°C]:	optimal at +23

1) At 25 °C, Brookfield viscometer

2) Measured according to DIN 53217, part 2 density sphere model 475/III

3) Measured according to DIN 51755

### Cured\*

#### Fixing time (joined):

NBR rubber [s]:	1-3
Stainless steel [s]:	15-30
Final strength [h]:	24

### Storage & Durability

The shelf life is, at the optimum storage temperature of +2 °C to +10 °C in the closed original container, a maximum of 18 months. A higher storage temperature leads to a significantly lower durability. The storage temperature must not fall below +2 °C. Protect the product from direct sunlight or heat, frost and humidity.

### Technical properties hardened product

Tensile shear strength <sup>1)</sup> [N/m <sup>2</sup> ]:	15-25
Service temperature range [°C]:	-10 to +40
Temperature range [°C]:	-40 to +85
Optimal gap:	Zero gap
Solubility:	DMF, Acetone, Acetonitrile

1) Stainless steel 1.4301; ASTM D 1002

### Application

The metal surfaces to be repaired must be free from oil, grease, dirt or other contaminants. The substrate pretreatment influences the quality of the repair. Use the degreaser product WINKEL PRO FAST CLEANER. Then completely fill in the gap between the two parts with the product, then assemble the parts and close them completely. Do not move after the start of the curing process. Before use, allow the product to cure completely for 24 hours. Before using the product, please refer to the safety data sheet. There are differences in the pretreatment for each surface to be repaired. Please feel free to contact us for application questions.

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