



liquid  
strong  
fast-curing

WEICON RK-1500 has high impact, peel, and shear strength.

The system consists of adhesive and activator which are used in the "no mix" procedure. This makes processing easier by eliminating mixing procedures. RK-1500 is particularly well suited for processing on large bonding surfaces.

The transparent adhesive is particularly suitable for bondings of glass, metal and ceramics to themselves and among each other.

WEICON RK-1500 can be used in mechanical and apparatus engineering, vehicle construction, tool and mould making, the building and furniture industry and in many other industrial applications.

ISSA: 75.629.53

IMPA: 81 29 92

### Technical data

Basis	Methyl methacrylate
Properties	liquid
Viscosity Adhesive	4.500 mPa.s
Viscosity Activator	very thin liquid mPa.s
Specific weight Adhesive	1,00 g/cm <sup>3</sup>
Specific weight Activator	0,87 g/cm <sup>3</sup>
Colour adhesive	yellowish, transparent
Colour activator	colourless, transparent
Consumption adhesive (depending on surface structure)	180 - 300 g/m <sup>2</sup>
Consumption activator (depending on surface structure)	30 - 150 g/m <sup>2</sup>
Evaporation time activator at +20 °C	5 min.
Effectiveness activator after application at +20 °C	max. 30 days
Processing temperature	+10 to +30 °C
Curing temperature	+6 to +40 °C
Gap covering power	max. 0,8 mm
Handling strength (35% strength) after	5 min.
Mechanical durability (50% strength) after	8 min.
Final hardness (100%) strength after	24 h
Average tensile shear strength after 7 days with DIN 5:	
Aluminium, sand-blasted	26 N/mm <sup>2</sup>
Steel, sand-blasted	25 N/mm <sup>2</sup>

Stainless steel, sand-blasted	25 N/mm <sup>2</sup>
Copper, sand-blasted	19 N/mm <sup>2</sup>
Brass, sand-blasted	26 N/mm <sup>2</sup>
ABS, roughened	6 N/mm <sup>2</sup>
Hard PVC, roughened	11 N/mm <sup>2</sup>
GRP, roughened	20 N/mm <sup>2</sup>
Temperature resistance	-50 to +130, short-term up to +180 °C
Peel resistance on aluminium	6 N/mm
Thermal conductivity	0,2 W/m.K
Dielectric strength	10 kV/mm

### Pretreatment of the surface

To ensure perfect bonding, the surfaces to be joined must be clean and dry (to clean and degrease use WEICON Surface Cleaner). The highest strength values can be achieved through additional pre-treatment of the surfaces, such as roughening using blasting or abrasive agents.

Several plastics, in particular polyamide, PTFE, polyolefin etc. are only to be bonded after special surface treatment, for example using fluoridation, low-pressure plasma, corona, flame impingement etc.

### Processing

#### Processing of the RK Activator

The RK Activator is applied, depending on the size of the bonding gap, on either one side or both sides of the surfaces to be bonded (brush, spray, dip). In case of bond lines with a max. of 0.4 mm in width, the Activator only needs to be applied on one side, for bond lines of up to a max. of 0.8 mm in width and/or rough, porous or passive surfaces (chrome, nickel etc) the Activator must be applied on both sides.

For smooth plastic and metal surfaces, approx. 30 g/m<sup>2</sup> is necessary, for rough and porous surfaces up to 150 g/m<sup>2</sup> of Activator may be necessary. The evaporation time at room temperature (+20 °C) is at least 5 minutes.

A significant advantage to other adhesive systems is that the coated components can be stored up to 30 days at room temperature (+20 °C) without losing effectiveness.

#### Processing of the RK Adhesive

The Adhesive is applied only on one side and normally on the surface which is not coated with Activator. The width of the bond line can be up to 0.80 mm (only if the Activator is applied on both sides). Bond lines of 0.15 mm to 0.25 mm in width always have the highest tensile shear strength.

#### Processing temperature

The processing should take place at room temperature (approx. +20 °C). Higher temperatures, e.g. +40 °C shorten the positioning and curing times by approx. 30%, lower temperatures of approx. +10 °C increase the respective times by approx. 50% and up to +5 °C almost no reaction occurs anymore.

### Storage

WEICON RK Construction Adhesives have a shelf life of at least 12 months if stored in a dry room at a constant temperature of approx. +20 °C. At temperatures between +1 °C and +7 °C the shelf life can be extended up to 24 months. This applies for closed original units which have not been directly or indirectly exposed to sunrays. In case of storage temperatures exceeding +40 °C and high humidity, the shelf-life is shortened to 6 months.

#### WEICON GmbH & Co. KG (Headquarter)

Königsberger Str. 255 · DE-48157 Münster  
P.O. Box 84 60 · DE-48045 Münster  
Germany

Tel. +49 (0) 251 / 93 22-0  
Fax +49 (0) 251 / 93 22-244  
Fax +49 (0) 251 / 93 22-233 Export  
www.weicon.de · info@weicon.de

#### WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216  
Dubai · U.A.E

Phone +971 4 880 25 05  
Fax +971 4 880 25 09  
Mobile +971 50 545 99 83  
www.weicon.ae · info@weicon.ae

#### WEICON Inc.

20 Steckle Place · Unit 20  
Kitchener · Ontario · N2E 2C3  
Canada

Phone +1 519 896 5252  
Fax +1 519 896 5254  
Cell +1 519 590 5168  
www.weicon.ca · info@weicon.ca

#### WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi  
Arifağa Sokak No: 29 Kat: 3  
34530 Yenibosna – İstanbul Turkey  
www.weicon.biz.tr · info@weicon.biz.tr

#### WEICON Romania SRL

Str. Podului Nr.1  
547176 Budiu Mic (Targu Mures)  
www.weicon.com · office@weicon.com

# RK-1500

## Note

Any product specifications and recommendations given herein must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

## Health and Safety

When using WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets ([www.weicon.com](http://www.weicon.com)) must be observed.

### WEICON GmbH & Co. KG (Headquarter)

Königsberger Str. 255 · DE-48157 Münster  
P.O. Box 84 60 · DE-48045 Münster  
Germany

Tel. +49 (0) 251 / 93 22-0  
Fax +49 (0) 251 / 93 22-244  
Fax +49 (0) 251 / 93 22-233 Export  
[www.weicon.de](http://www.weicon.de) · [info@weicon.de](mailto:info@weicon.de)

### WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216  
Dubai · U.A.E

Phone +971 4 880 25 05  
Fax +971 4 880 25 09  
Mobile +971 50 545 99 83  
[www.weicon.ae](http://www.weicon.ae) · [info@weicon.ae](mailto:info@weicon.ae)

### WEICON Inc.

20 Steckle Place · Unit 20  
Kitchener · Ontario · N2E 2C3  
Canada

Phone +1 519 896 5252  
Fax +1 519 896 5254  
Cell +1 519 590 5168  
[www.weicon.ca](http://www.weicon.ca) · [info@weicon.ca](mailto:info@weicon.ca)

### WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi  
Arifağa Sokak No: 29 Kat: 3  
34530 Yenibosna – İstanbul Turkey  
[www.weicon.biz.tr](http://www.weicon.biz.tr) · [info@weicon.biz.tr](mailto:info@weicon.biz.tr)

### WEICON Romania SRL

Str. Podului Nr.1  
547176 Budiu Mic (Targu Mures)  
[www.weicon.com](http://www.weicon.com) · [office@weicon.com](mailto:office@weicon.com)