

Construction Adhesive RK-7000

- high strength
- impact resistant
- residual elasticity

2-component construction adhesive for bonding of plastics

The following materials can be bonded to themselves and among each other with high tensile, shear and peel strength:

- plastics (e.g. PVC, ABS, PMMA, fibre glass, phenol)
- polyurethane
- epoxies

In addition, WEICON Construction Adhesive RK-7000 can be used as “universal adhesive” for other materials like steel, aluminium, wood, ceramics and many others.

WEICON Construction Adhesive RK-7000 features special product-specific characteristics:

- high tensile, shear and impact strengths
- fast curing
- excellent adhesion on plastic, metal and many other materials
- for indoor and outdoor use
- resistant to weather conditions and many chemicals
- grindable and overpaintable
- wide variety of applications
- temperature resistant from -55°C to $+125^{\circ}\text{C}$, briefly (30 min) up to $+180^{\circ}\text{C}$

WEICON Construction Adhesive RK-7000 can be applied universally and is equally suited for below listed areas of application:

plastics engineering • metal construction • car body and vehicle construction • fastening technology • machine building • electrical engineering • wood processing • container construction • heating, ventilation and air conditioning • trade fair and exhibition • model and mould construction



Bonding of metal slats to a protective covering made of polyester for agricultural machines



Bonding of plastic-laminated MDF plates (model making)



Bonding of plastic shells made of polyester (prototypes in mould making)



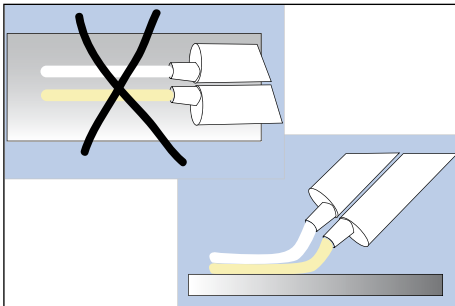
Bonding of stainless steel and carbon in yacht building



Bonding of various acrylic glass elements for store construction



Bonding of metal slats to a protective covering made of polyester for agricultural machines



Adhesive application bead to bead



Bonding of plastic-laminated MDF plates (model making)

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WEICON Construction Adhesive RK-7000 is alternatively available in the practical double syringe or in the modern “Easy-Mix” mixing and dosing system.

Processing: The prerequisite for perfect adhesion are clean and dry surfaces (e.g. cleaning and degreasing with WEICON Cleaner Spray S or WEICON Plastic Cleaner). The best results are achieved when the surfaces to be bonded are mechanically roughened. The adhesive is applied only on one side.

Double syringe 24 g: Resin and hardener are delivered automatically in the right proportions.

They are applied alternatively:

- one bead directly on top of the other (“bead to bead”); parts are then joined with slightly rotating motions, or
- by mixing both components, for example on one of the surfaces to be bonded; this method guarantees the highest strength.

Double cartridge 50 g: The clean and precise dosing, mixing and application of resin and hardener happen automatically in only one working operation. This ensures the permanent quality and the process stability within a serial production.

Technical data:

Basis:	Methyl methacrylate
Delivery form/contents:	Double syringe 24 g Double cartridge 50 g
Mixing ratio of resin/hardener:	1 : 1
Colour after curing:	yellowish
Mixture density:	1,00 g/cm ³
Mixture viscosity at +20°C:	53.000 mPa.s
Pot life at +20°C:	10 – 15 minutes
Handling strength (35%) after:	25 minutes
Mechanical loads (50% strength) after:	60 minutes ^{*1}
Final strength (100%) after:	12 hours
Adhesive gap bridging:	0,1 mm to 4,0 mm
Average strength at +20°C acc. to DIN 53281-83:	20 – 25 mPa.s ^{*1}
Average E-module at +20°C acc. to DIN 53281-83:	1.000 mPa.s
Shore hardness D:	78
Expansion	15 – 25%
Temperature resistance:	-55°C to +125°C, briefly (30 min) up to +180°C ^{*2}
Shelf life at +20°C:	12 months

*1 This data depends on the type and properties of the material to be bonded

*2 A temporary thermal load of about +180°C for approx. 30 minutes, e.g. in powder coating, has no influence on the strength.

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