



**Oberflächen-
Reiniger**
Zur Vorbehandlung
von Klebflächen
**Surface
Cleaner**



New

Structural Acrylic Adhesives
RK-7200
Crystal clear





WEICON Easy-Mix RK-7200

**Crystal clear, high strength,
impact resistant, residual elasticity**

Weicon Easy-Mix RK-7200 is a high strength, solvent-free and fast-curing structural adhesive. It is based on MMA (methyl methacrylate) and has an excellent adhesion on many materials.

Because of the crystal clear curing, RK-7200 is particularly suitable for transparent joints where the bonding seam should not be seen. Moreover, this adhesive can be used for structural bondings where a coloured adhesive would not fit optically to the construction parts.

Thus, transparent plastics like e. g. plexiglass (PMMA) and other materials can be bonded in a clean and appealing way.

RK-7200 has a quick and strong initial adhesion and is applicable within a temperature range of -40°C (-40°F) until $+110^{\circ}\text{C}$ ($+230^{\circ}\text{F}$). It can be used both indoor and outdoor and is resistant against climatic influences and chemicals.

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)
- steel, aluminium, stainless steel
- polyurethane, epoxies
- wood, ceramics and many others

Weicon Easy-Mix RK-7200 has the following specific characteristics:

- crystal clear curing
- self-leveling
- very short pot life and processing time (2-3 minutes)
- rapid strength development (handling strength after approx. 10 min., final strength after approx. 6 hours.)
- residual elasticity after curing, impact resistant
- resistant to chemicals
- high tensile and shear strength
- excellent peel and shock resistance
- aging resistant




WEICON Easy-Mix RK-7200 can be applied universally and is suitable for applications in the following industrial fields:

- plastics engineering
- trade fair and exhibition
- machine building
- model and mould construction
- metal construction
- electrical engineering
- car body and vehicle construction

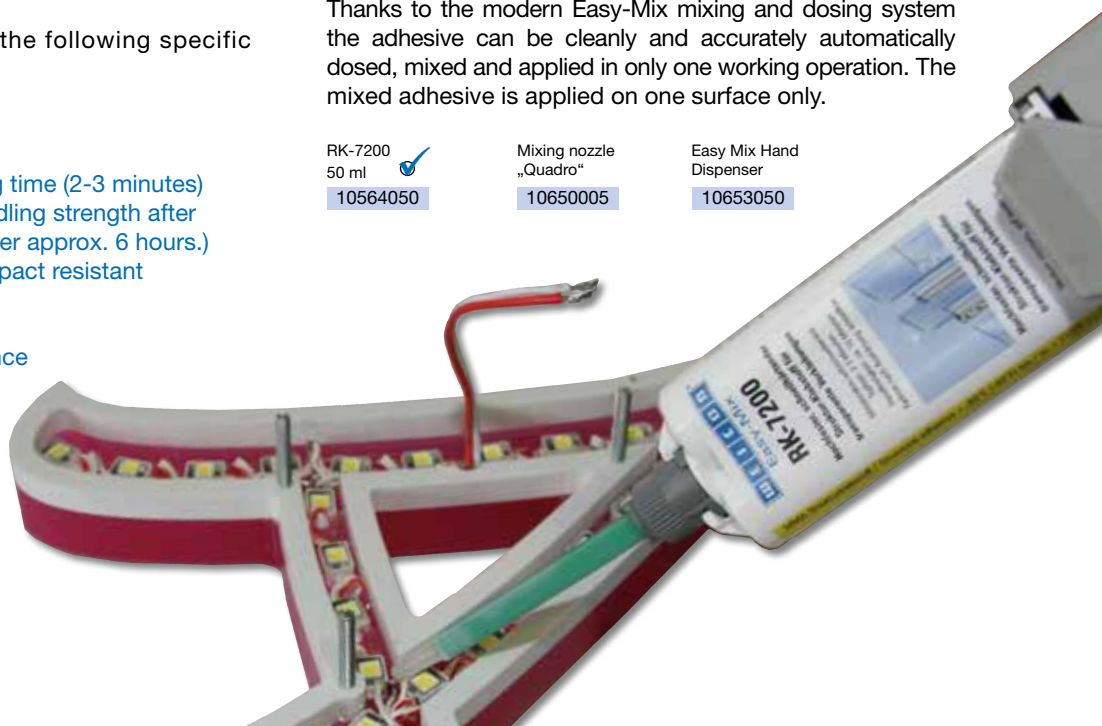
Processing of Easy-Mix RK-7200:

Thanks to the modern Easy-Mix mixing and dosing system the adhesive can be cleanly and accurately automatically dosed, mixed and applied in only one working operation. The mixed adhesive is applied on one surface only.

RK-7200
50 ml 
10564050

Mixing nozzle
„Quadro“
10650005

Easy Mix Hand
Dispenser
10653050



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The prerequisite for a perfect adhesion are clean and dry surfaces (e.g. cleaning and degreasing with WEICON Surface Cleaner).

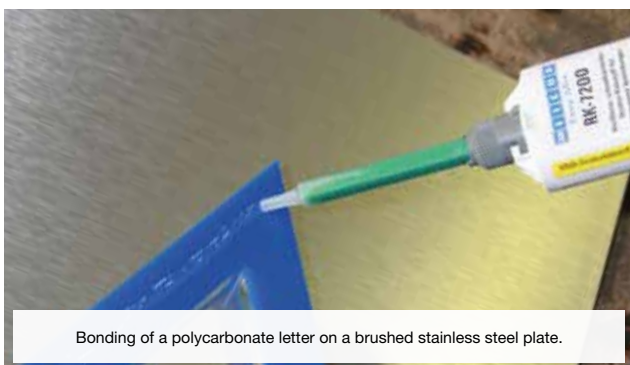
The best results are achieved when the surfaces to be bonded are mechanically roughened. Some low energy plastics, especially PTFE and polyolefines etc, can only be bonded after special surface treatment, e.g. fluorination, low-pressure plasma, corona, flame treatment or otherwise. For these materials, Weicon proposes a special adhesive: Weicon Easy-Mix PE-PP.



Bonding of an aluminium frame on a brushed stainless steel plate.



Bonding of a polycarbonate cube on glass.



Bonding of a polycarbonate letter on a brushed stainless steel plate.

Technical data

		RK-7200
Basis:		Methyl methacrylate
Mixing proportion by volume:		1 : 1
Pot life:		approx. 2 - 3 min.
Density of the mixture:		1.1 g/cm ³
Viscosity (Brookfield, +20°C/+68°F):		5.000 - 10.000 mPa.s
Colour:		crystal clear, colourless
Bonding gap (min.-max.):		0.10 mm to 2.0 mm
Handling strength (35%, +20°C/+68°F):		approx. 10 min.
Mechanical loads (50%, +20°C/+68°F):		approx. 120 min.
Final strength (100%, +20°C/+68°F):		approx. 6 hours
Average tensile shear strength as per DIN 53283 on	ABS (acrylonitrile butadiene styrene)	5.0 N/mm ² (730 psi)
	CFC (carbon fibre reinforced polymer)	6.0 N/mm ² (870 psi)
	GRP-EP (epoxy basis)	9.0 N/mm ² (1.310 psi)
	GRP-UP (polyester basis)	7.0 N/mm ² (1.020 psi)
	PA (polyamide)	1.3 N/mm ² (190 psi)
	PC (polycarbonate)	3.0 N/mm ² (440 psi)
	PMMA (polymethylmethacrylate)	3.0 N/mm ² (440 psi)
	PS (polystyrene)	2.6 N/mm ² (380 psi)
	PVC (polyvinylchloride)	4.0 N/mm ² (580 psi)
	SAN (styrene-acrylonitrile)	5.0 N/mm ² (730 psi)
	Aluminium	18.0 N/mm ² (2.610 psi)
	Stainless steel	17.0 N/mm ² (2.470 psi)
Steel (bare)	23.0 N/mm ² (3.340 psi)	
Wood (beech)	8.0 N/mm ² (1.160 psi)	
Glass	2.0 N/mm ² (290 psi)	
E-Module DIN EN ISO 527:		790 - 1.010 N/mm ² (115 - 146 ksi)
Shore hardness DIN EN ISO 868:		70 - 75 D
Tensile strength DIN EN ISO 527 max.:		18.5 N/mm ² (2.680 psi)
Max. expansion DIN EN ISO 527:		5.5 %
Pressure resistance DIN EN ISO 604:		61.6 N/mm ² (8.930 psi)
Thermoforming resistance DIN EN ISO 75:		+49°C (+120°F)
Temperature resistance:		-40°C to +110°C (-40 to +230°F)
Glass transition temperature:		-47°C and +125°C (-53 and +257°F)
TGA Onset temperature:		+135°C (+275°F)
Flexural strength DIN EN ISO 178:		22.6 N/mm ² (3.280 psi)
Impact resistance DIN EN ISO 179-1:		17.4 kJ/m ²



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