

Easy-Mix RK-7100



fast-curing
high strength
impact resistant, residual elasticity

WEICON Easy-Mix RK-7100 can be used to bond numerous materials such as plastics, metals, wood and ceramics to themselves and among. It is particularly convenient for structural bondings if high-strength connections are required. The adhesive is very viscous and is therefore suitable also for applications on vertical surfaces.

WEICON Easy-Mix RK-7100 can be used universally and, for example, in plastics technology, metal construction, car body and vehicle construction, machine construction, electrical engineering, model and mould making and in trade show and exhibition construction.

Technical data

Basis	Methyl methacrylate
Mixing ratio Resin / Hardener	1:1
Colour after curing	creamwhite, milky
Density of the mixture	0,98 - 1,02 g/cm ³
Pot life at +20 °C	approx. 5 min.
Viscosity of the mixture	40.000 - 60.000 mPa.s
Handling strength (35%) after	approx. 25 min.
Mechanical loads (50% strength) after	approx. 60 min.
Final strength (100%) after	approx. 12 hours
Adhesive gap bridging	0,1 - 5,0 mm
Average strength (+20 °C) acc. to DIN 1465	20 - 25
on GRP	GRP 8 N/mm ²
on PVC	PVC 21 N/mm ²
on Aluminium	24 N/mm ²
on Steel bright	23 N/mm ²
on Stainless steel	15 N/mm ²
on PMMA	23 N/mm ²
Average E-module (+20 °C)	1.300 - 1.700 N/mm ²
Shore hardness D DIN EN ISO 868	75
Tensile strength ISO 527 max.	22 N/mm ²
Tensile Extension ISO 527 max.	30 %
Temperature resistance	-55 up to +125 °C
Accessory	Quadro Mixing Nozzle 16.L, Art.-No. 10650005
Accessory	Easy-Mix Hand Dispenser, Art.-No. 10653050

Pretreatment of the surface

The prerequisite for perfect adhesion are clean and dry surfaces (e.g. cleaning and degreasing with 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, Teflon®, polyolefin etc. are only to be bonded after special surface treatment, for example using fluoridation, low-pressure plasma, corona, flame impingement etc.

Processing

WEICON Easy-Mix products can be processed directly from the double cartridges with the help of the included static mixer. Reject the first 5 cm of the dosed bead. Apply adhesive to only one of the surfaces to be bonded.

The pot life given is for a material quantity of 10 ml at room temperature. If larger quantities are used, the curing time will be faster. Similarly, higher ambient temperatures shorten the cure times (as a rule of thumb, every +10 °C increase above room temperature will halve working and curing time). Temperatures below +16 °C will extend working and curing times considerably, while below about +5 °C, no reaction will take place at all.

Storage

The shelf life is 12 months when stored unopened at a normal climate (+23 °C and 50 % rel. humidity).

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) must be observed.

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