

WEICON Construction Adhesive RK-7000

Introduction

WEICON RK Construction Adhesives are 2-component systems based on methacrylate, which cure fast at room temperature.



Fast-curing, high-strength construction adhesive for bonding different materials, e.g. metal or fibre-reinforced composites. This high-viscosity type allows application even on vertical surfaces. Potlife: approx. 15 minutes.

Technical data

Basis	Methyl methacrylate
Mixing ratio Resin / Hardener	1:1
Colour after curing	creme white, milky
Density of the mixture	0,98 - 1,02 g/cm ³
Pot life at +20°C	approx. 15 min.
Viscosity of the mixture	40.000 - 60.000 mPa.s
Handling strength (35%) after	approx. 40 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 53281-83	
on FRC (3mm)	GRP 9 N/mm ²
on Plastic Materials (0,76 mm)	PVC 17 N/mm ²
on Aluminium (0,26mm)	21 N/mm ²
on Steel bright (0,26 mm)	19 N/mm ²
on Stainless steel (0,26 mm)	17 N/mm ²
on Acrylic (0,76 mm)	18 N/mm ²
Average E-module (+20°C)	1.400 - 1.700 N/mm ²
Shore hardness D DIN EN ISO 868	70
Tensile strength ISO 527 max.	20 N/mm ²
Tensile Extension ISO 527 max.	35 %
Temperature resistance	-55 up to +125 °C
Zubehör	Quadro Mixing Nozzle 16.L., Art.-No. 10650005
Zubehör	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

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.

Apply adhesive to only one of the surfaces to be bonded. WEICON RK-Construction Adhesives will bridge a gap of minimum 0.1 mm and maximum of 5.0 mm. The pot life given is for a material quantity of 10 ml at room temperature. Higher ambient temperatures shorten the cure time (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.

WEICON RK-Construction Adhesives, when properly handled and completely cured, are toxicologically essentially harmless. When using these adhesives, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.de) must be observed.

Storage

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Only use containers that are approved specifically for the substance/product. Do not store with combustible materials.

Keep container tightly closed and store at cool and aired place.

Store only at temperature of +40°C maximum. Protect from direct solar radiation. Store in a dry place.

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.

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