

Easy-Mix RK-7000 Structural Acrylic Adhesive



slow-curing
high strength
impact resistant, residual elasticity

RK-7000 can be used to bond numerous materials such as plastics, metals 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 RK-7000 can be used universally and, for example, in plastics technology, metal construction, car body and vehicle construction, machine construction, electrical engineering, wood processing and in trade show and exhibition construction.

Technical Data

Composition	Methyl methacrylate
Colour after curing	cream white, milky
Mixing ratio resin/hardener	1:1
Density of the mixture	0,98 - 1,02 g/cm ³
Viscosity of the mixture	40.000 - 60.000 mPa·s
Application procedure	Easy-Mix
Composition	viscous
Pot-life at +20°C (+68°F)	15 min.
Handling strength (35% strength) after	40 min.
Capable of bearing mechanical loads (50% strength) after	60 min.
Processing temperature	+10 to +40 °C
Curing temperature	+18 °C
Final strength (100%) after	12 h
Tensile strength ISO 527 max.	24 N/mm ²
Strength-E-Module (DIN EN ISO 527)	1200 - 1500 Mpa
Elongation at break (DIN EN ISO 527)	28 %
Adhesive gap bridging	0,1 - 5,0 mm
Shear strength according to DIN EN 1465 at:	

Aluminium	20 N/mm ²
Steel sand blasted	23 N/mm ²
Stainless Steel	22 N/mm ²
PC	11 N/mm ²
Tg after curing at room temperature	-39,8 Tg (°C)
PMMA	9 N/mm ²
ABS	7 N/mm ²
Hard-PVC	12 N/mm ²
GRP	21 N/mm ²
CFK	22 N/mm ²
Polyamide 6.6	1 N/mm ²
Temperature resistance	-55 to +125 °C
Thermal diffusivity (23°C)	0,118 mm ² /s
Thermal conductivity	0,20 W/m·K
Specific heat capacity	1,453 J/(g·K)
Resistivity	1,83 · 10 ¹¹ Ωm
ISSA-Code	75.629.55
IMPA-Code	812994

Surface pre-treatment

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.

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).

Safety and health

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.

Note

The specifications and recommendations given in this technical data sheet 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 guarantee the continuously high quality of our products. 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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Technical Datasheet

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Available sizes:

10565050 Easy-Mix RK-7000 Structural Acrylic
Adhesive 50 g

Accessories:

10650005 Mixing Nozzles Easy-Mix, Quadro
10653050 Dispenser D 50, 50 ml
12955175 Dosing Tips, Typ A Size 0,5

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