

Easy-Mix RK-7100 LV

Fast-curing | high-strength | impact-resistant | low viscosity

The structural acrylic adhesive WEICON Easy-Mix RK-7100 LV can be used to bond numerous materials, such as plastics, metals and ceramics with high tensile, shear and peel strength. It is particularly suitable for structural bondings where high strength connections are required. RK-7100 LV is universally applicable and can be used, for example, in plastics technology, in metal construction, in car body and vehicle construction, in mechanical engineering, in electrical engineering, model and mould making, and in trade show and exhibition construction.

Characteristics

Base	methyl methacrylate
Texture	liquid

Processing

Processing procedure	Easy-Mix
Processing temperature	+10°C to +40°C
Curing temperature	mind. +18 °C
Cure temperature	+18
Mixing ratio by weight	1:1
Viscosity of the mixture	400 mPa·s
Density of the mixture	1,0 g/cm ³
Gap bridging up to max.	3 mm

Curing

Pot life	at 20 °C	1 - 2 min.
Handling strength	(35 % strength)	3 - 4 min.
Working strength after	(50 % strength)	60 min.
Final strength	(100 % strength)	12 h

Mechanical properties after curing

Tensile strength	DIN EN ISO 527-2	15 N/mm ²
Elongation at break (tensile)	DIN EN ISO 527-2	2 - 5 %
E-modulus (tensile)	DIN EN ISO 527-2	700 - 900 MPa
Lap shear strength material thickn. 1,5mm DIN EN 1465		
Medium lap shear strength (DIN EN 1465/ASTM D 1002)		18 N/mm ²

Thermal parameters

Temperature resistance	-55°C to +125°C
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Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our safety data sheets (www.weicon.com) must be observed.

Surface pre-treatment

For a flawless adhesive bond, surfaces must be clean and dry (e.g. clean and degrease with Surface Cleaner). Higher strengths can be achieved by further pre-treatment of the surfaces, such as roughening by blasting or grinding. Some low-energy plastics, especially PTFE and polyolefins etc., can only be bonded after special pre-treatment of the surfaces by e.g. fluorination, low-pressure plasma, corona, flame treatment, or similar.

Processing

WEICON RK-7100 LV can be processed straight from the double cartridge by means of the included static mixer. Dismiss the first 5 cm of the adhesive bead. The adhesive is applied to just one side. The specified pot life refers to a material batch of 10 ml at room temperature. Larger batch quantities will result in faster curing. Higher temperatures also reduce the pot life and curing time. (General rule: every increase by +10 °C above room temperature results in a decrease of the pot life and curing time by

half). Temperatures below +16 °C increase the pot life and curing time significantly. From approx. +5C and below, no reaction takes place.

Shelf life

Shelf life of 9 months when unopened and stored in normal climate (+23°C and 50 % rel. air humidity).

Scope of delivery

Adhesive | Quadro Mixing Nozzle

Accessories

10650001	Quadro Mixing Nozzle
10653050	Dispenser Easy-Mix D 50, 1 PCE
12955175	Dosing Tip, 1 PCE

Conversion table

(°C x 1,8) + 32 = °F	Nm x 8,851 = lb·in
mm/25,4 = inch	Nm x 0,738 = lb·ft
µm/25,4 = mil	Nm x 141,62 = oz·in
N x 0,225 = lb	mPa·s = cP
N/mm ² x 145 = psi	N/cm x 0,571 = lb/in
MPa x 145 = psi	kV/mm x 25,4 = V/mil

Available sizes

10566X50 Easy-Mix RK-7100 LV, 50 ml

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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Easy-Mix RK-7100 LV

Available sizes:

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