

Easy-Mix PU-240 Polyurethane Adhesive



high strength
extremely fast-curing
highly viscous

WEICON Easy-Mix PU-240 structural adhesive is high-strength, extremely fast-curing, highly viscous, and can be sanded and painted over after approx. 30 minutes. It is weather resistant, resistant to chemicals and temperature resistant from -55°C to +125°C (-67 to +257°F) and has a very short pot life of around 240 seconds.

PU-240 can be used to bond numerous materials such as composite materials, plastics, polyurethane, epoxides, polyester, metals, wood and ceramics to themselves and among each other with high tensile, shear and peel strength.

WEICON PU-240 can be used in plastic technology, machine construction, model and mould making, metal construction, ship and boat building, carriage and vehicle construction, trade show and exhibition construction and in many other applications.

Technical Data

Base	Polyurethane
Colour after curing	black
Mixing ratio resin/hardener	1:1
Density of the mixture	1,30 - 1,35 g/cm ³
Pot-life at +20°C (+68°F)	240 sec.
Handling strength (35% strength) after	10 min.
Capable of bearing mechanical loads (50% strength) after	30 min.
Final strength (100%) after	12 h
Adhesive gap bridging	0,1 - 0,4 mm

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.

Medium shear strength according to DIN 53283 at

Aluminium	14 N/mm ²
Steel bright	23 N/mm ²
Stainless Steel	18 N/mm ²
Medium e-module +20°C (+68°F)	450 - 550 N/mm ²
Shore hardness D DIN EN ISO 868	68
Tensile strength ISO 527 max.	20 N/mm ²
Tensile Extension ISO 527 max.	31 %
Thermoforming resistance	+65 °C
Temperature resistance	-55 to +125 °C
TGA desomposition temperature (Onset-Temp.)	+336 °C
ISSA-Code	81 29 87

Surface pre-treatment

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. can only 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 9 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.

Available sizes:

10753050 Easy-Mix PU-240 Polyurethane Adhesive 50 ml

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Technical Datasheet

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Accessories:

10650005	Mixing Nozzles Easy-Mix, Quadro
10653050	Dispenser D 50,
11202400	Sealant and Adhesive Remover, 400 ml
11207400	Surface Cleaner, 400 ml
11850200	Hand Protective Foam, 200 ml
12955175	Dosing Tips, Typ A Size 0,5
13550125	Primer M 100, 250 ml
13550225	Primer K 200, 250 ml
13550325	Primer S 300, 250 ml
13550425	Primer P 400, 250 ml

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