New

Easy-Mix PU-90 / PU-240

fast · strong · reliable

High-strength, fast-hardening 2-component structural adhesives based on polyurethane with excellent adhesion on a broad range of materials. The high-viscosity formulation enables application even on vertical surfaces.
The 2-component system also provides for fast and controlled curing. This makes the adhesive bonding process virtually independent of layer thickness, humidity and ambient temperature.

The following materials can be bonded among themselves or to each other with a high tensile, shearing and impact strength:
- Fibre composite materials (e.g. EP-GRP, UP-GRP, CFC, SMC and fibreglass)
- Plastics (e.g. PVC, ABS, PMMA, PC and phenol)
- Polyurethane, epoxies and polyester
- Steel, aluminium and stainless steel
- Wood, ceramic, etc.

WEICON Easy-Mix PU-90/PU-240 adhesives are characterised by the following properties:
- Fast initial strength
- Immediate adhesion even on vertical surfaces, no dripping, can be modelled
- High tensile, shear and impact strengths
- Permanently elastic/impact resistant, low shrinkage
- For indoor and outdoor use
- Resistant to weathering and chemicals
- Can be sanded and painted over after approx. 30 minutes
- Neutral to materials
- Temperature resistant from -55°C *(-67°F)* to +125°C *(+257°F)*

WEICON Easy-Mix PU-90/PU-240 adhesives are suitable both for universal use in dynamically loaded adhesive bonds and for applications where a high flexibility is required.
They are used in the following industrial sectors:
- Plastics technology
- Mechanical engineering
- Model and mould construction
- Ship and boat building
- Energy systems and electrical engineering
- Metalworking
- Car body and vehicle construction
- Trade fair and exhibition construction

Bonding fastening elements onto GRP walls in utility vehicles.

Gluing fastening elements onto phenol resin panels.

Gluing an aluminium pipe onto a plastic front panel.

Gluing in stiffening braces.

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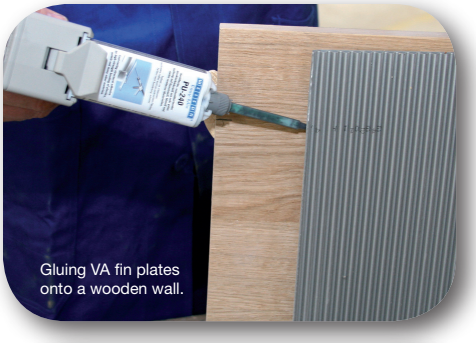
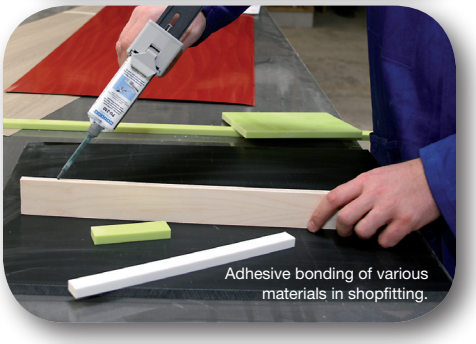
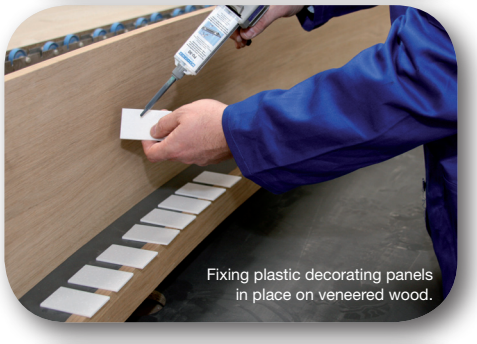

Gluing VA fin plates onto a wooden wall.


Adhesive bonding of various materials in shopfitting.


Fixing plastic decorating panels in place on veneered wood.

Production of plastic sandwich panels.

Distributed by:

Processing:
The conditions for proper adhesive bonding are clean and dry surfaces (e.g. after cleaning and degreasing with WEICON Surface Cleaner). Best results are achieved if the adhesive surfaces are mechanically roughened. Some low-energy adhesives, especially PTFE and polyolefins, etc. can only be bonded after special pre-treatment of the surfaces, e.g. with fluoridation, low-pressure plasma, corona, flame impingement, etc.
The adhesive is applied on one side.

Delivered form:

65 g / 50 ml	PU-90	Art.-No.: 10751050
65 g / 50 ml	PU-240	Art.-No.: 10753050

Accessories:

Easy-Mix Dispensing Gun	Art.-No.: 10653050
Quadro Mixing Nozzle 16.L	Art.-No.: 10650005

Technical Data

		PU-90	PU-240
Basis:		Polyurethane	Polyurethane
Mixing ratio according to volume:		1:1	1:1
Pot life/processing time (10 g, +20°C):		approx. 90 seconds	approx. 240 seconds
Mixture density:		1.40 – 1.45 g/cm³	1.40 – 1.45 g/cm
Viscosity (Brookfield, +20°C):		approx. 15,000 – 25,000 mPa·s (highly thixotropic)	approx. 15,000 – 25,000 mPa·s (highly thixotropic)
Colour:		black	black
Gap (min.-max.):		0.1 mm – 4 mm	0.1 mm – 4 mm
Reaction temperature, max. (10 g mixture):		+65°C *(+149°F)*	+50°C *(+122°F)*
Handling strength (35 %, +20°C):		approx. 5 min.	approx. 10 min.
Mechanical strength (50 %, +20°C):		approx. 10 min.	approx. 30 min.
Final curing (100%, +20°C):		approx. 12 hours	approx. 12 hours
Medium tensile shear strength on various substrates as per DIN EN 1465	Acrylic	3 N/mm²	4 N/mm²
	CRP	19 N/mm²	18 N/mm²
	GRP	17 N/mm²	16 N/mm²
	PVC	2 N/mm²	3 N/mm²
	Aluminium	13 N/mm²	14 N/mm²
	Bare steel	19 N/mm²	23 N/mm²
	Stainless steel	17 N/mm²	18 N/mm²
Shore hardness DIN EN ISO 868:		D 66	D 68
Tensile strength ISO 527 max.:		21 N/mm²	20 N/mm²
Elongation ISO 527 max.:		35%	31%
Thermo forming resistance:		+65°C *(+149°F)*	+65°C *(+149°F)*
Temperature resistance:		-55°C *(-67°F)* to +125°C *(+257°F)*	-55°C *(-67°F)* to +125°C *(+257°F)*
Impact strength DIN EN ISO 179-1/1eU		44 kJ/m²	40 kJ/m²
TGA decomposition temperature (onset temp.)		+330°C *(+626°F)*	+336°C *(+636.8°F)*
Medium module of elasticity DIN EN ISO 527:		650 – 750 N/mm²	450 – 550 N/mm²

All information and recommendations contained in this brochure do not represent guaranteed properties. They are based on our research results and experience. They are, however, non-binding, since we cannot be held responsible for the user's observance of the processing conditions and since we are not familiar with his or her special application conditions. A guarantee can only be assumed for the constant high quality of our products. We recommend that users determine with their own tests whether the properties they desire are provided by the specified product. No claims will be entertained based on this. The user bears the sole responsibility for incorrect use or use for other purposes.

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