# Easy-Mix PU-90



WEICON Easy-Mix PU-90 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 90

WEICON PU-90 can be used to bind numerous materials such

as composite materials, plastics, polyurethane, epoxies, polyester,

metals, wood and ceramics to themselves and among each other

PU-90 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.

1.5 Min. Polyurethane Structural Adhesive

with high tensile, shear and peel strength.

seconds.

**Technical Data** 

Colour after curing

Density of the mixture

Pot-life at +20°C (+68°F)

Final strength (100%) after

Tensile strength ISO 527 max

Medium e-module +20°C (+68°F)

Adhesive gap bridging

Aluminium

Steel bright

Stainless Steel

Handling strength (35% strength) after

Capable of bearing mechanical loads (50% strength) after

Medium shear strength according to DIN EN 1465 at

Mixing ratio resin/hardener

Base

#### Shore hardness D DIN EN ISO 868 66 Tensile Extension ISO 527 max. 35 % +65 °C Thermoforming resistance -55 to +125 °C Temperature resistance Thermal diffusivity (23 °C) 0.186 mm<sup>2</sup>/s Thermal conductivity 0.283 W/m·K Specific heat capacity 1.268 J/(g·K) Resistivity 1 90 · 10^12 Om IMPA-Code 812986

# 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 pretreatment 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

polyurethane

1,30 - 1,35 g/cm3

black

90 sec.

5 min

10 min.

0,1 - 4,0 mm

13 N/mm

21 N/mm<sup>2</sup>

19 N/mm<sup>2</sup>

17 N/mm<sup>2</sup>

650 - 750 N/mm<sup>2</sup>

12 h

1:1

The shelf life is 18 months when stored unopened at a normal climate (+73°F / +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.

Easy-Mix PU-90 50 ml

# Available sizes:

10751050-35

# Accessories:

Mixing Nozzle, Easy-Mix Dispenser D 50, D50 Processing Spatula, Dosing Tips,

#### 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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