



ADHESIVES & SEALANTS



Weicon Easy-Mix PU-90

Weicon Easy-Mix PU-90 is a high strength, high viscosity and extremely fast curing adhesive that's easy to use and extremely versatile. This polyurethane based two-part adhesive can be sanded and painted over after about 30 minutes and, once fully cured, resists chemicals and weather.

Easy-Mix PU-90 can be used to bond a wide variety of materials and is widely used in a variety of different industries. It has a very short pot-life (just 90 seconds) and, because of its highly viscous nature can easily be applied to vertical surfaces.

Thanks to the special double syringe container, there's no measuring or manual mixing involved with PU-90. The two parts are combined in the exact correct proportions as they travel down the nozzle before they reach the bonding surface.

Features

- Fast initial strength
- Immediate adhesion (even on vertical surfaces), no dripping, can be modelled
- High tensile, shear and impact strengths
- Permanently elastic and impact resistant
- Low shrinkage
- Used indoors and outdoors
- Resistant to weathering and many chemicals
- Neutral to materials and surfaces
- Withstands temperatures up to 125°C

Compatible with

- Fibre composite materials (e.g. EP-GRP, UP-GRP, CFC, SMC & fibreglass)
- Plastics (e.g. PVC, ABS, PMMA, PC and phenol)
- Polyurethane, epoxies and polyester
- Steel, aluminium and stainless steel
- Wood, ceramic and more

Properties

Basis	Polyurethane
Mixing Ratio (Resin / Hardener)	1 : 1
Colour After Curing	Black
Density of the Mixture	1.3 – 1.35 g/cm ³
Pot Life at +20°C	1.5 Minutes
Handling Strength (35%)	5 Minutes
Mechanical Strength (50%)	10 Minutes
Final Strength (100%)	12 Hours
Adhesive Gap Bridging	0.2 – 4mm
Average Strength (+20°C) DIN 1465	
On GRP	17 N/mm ²
On PVC	2.2 N/mm ²
On Aluminium	13 N/mm ²
On Steel (Bright)	19 N/mm ²
On Stainless Steel	17 N/mm ²
On PMMA	3 N/mm ²
On Beech	1.8 N/mm ²
On MDF	5 N/mm ²
On Mineral Cast	8 N/mm ²
Average E-module (+20°C)	650 – 750 N/mm ²
Shore Hardness D (DIN EN ISO 868)	66
Max. Tensile Strength (ISO 527)	21 N/mm ²
Max. Tensile Extension (ISO 527)	35%
Temperature Resistance	-55°C to +125°C (Continuous)
Thermoforming Resistance	+65°C
TGA Decomposition Temperature (onset temp.)	+330°C

Visit: www.agaus.com.au

Phone: 1300 098 060

Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.



ADHESIVES & SEALANTS



Weicon Easy-Mix PU-90

Preparation of the Surface

The surface to which Easy-Mix PU-90 will be applied must be clean and grease-free. Many surface contaminants (e.g. oil, dust and dirt) can be removed with Weicon Surface Cleaner. For heavily soiled surfaces we suggest Weicon Cleaner S Spray. Weicon Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues.

The highest strength values possible will be achieved through additional pre-treatment of the surface such as by roughening via blasting or with abrasive agents. Several plastics (in particular, polyamide, PTFE and polyolefin) are only able to be bonded after special surface treatment (e.g. fluoridation, low-pressure plasma, corona, flame impingement).

Processing

Insert the PU-90 cartridge in the Easy-Mix Dispensing Gun and ensure the nozzle is correctly attached.

Apply the adhesive only to one of the surfaces being bonded. Weicon Easy-Mix PU-90 will bridge a gap as small as 0.2mm up to a maximum of 4mm. The pot life given is for a material quantity of 10ml at room temperature. If larger quantities are used, the curing time will be faster. Similarly, higher ambient temperatures shorten the cure time while lower temperatures will extend it.

Storage

When stored unopened in normal climatic conditions (+23°C and 50% relative humidity) the minimum shelf life is 9 months.

Availability

Weicon Easy-Mix PU-90 is available in 50ml double-syringe cartridges. Each cartridge ships with 1 Quadro mixing nozzle with additional nozzles and the Easy-Mix Dispensing Guns also available separately.

Visit: www.agaus.com.au

Phone: 1300 098 060

Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.