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Our Easy-Mix PU-90 Polyurethane Adhesive is a professional-grade product used in numerous industries around the world. It offers a combination of extremely fast cure times, excellent material compatibility and strong adhesion.

Manufactured in Germany by Weicon, this adhesive is based on polyurethane. It is black in colour and is used to create strong, permanent bonds between all types of material.

Material Compatibility

PU-90 is suitable for bonding a wide range of materials and surfaces. It is known to be highly compatible with...

- Fibre Composite Materials (e.g. Fibreglass, SMG, CFC, UP-GRP & EP-GRP).
- Most Plastics (Including PVC, ABS, PMMA, PC and Phenol. Untreated PTFE, PE & PP require a primer).
- Polyurethanes.
- Epoxy Sheets.
- Polyester Sheet.
- Steel, Aluminium and Stainless Steel.
- Wood.
- Ceramic & Glass.

[View This Product](#)**Applications**

Easy-Mix PU-90 Polyurethane Adhesive is used in a variety of different areas around the world. This fast, strong structural glue is suitable for both serial production and repair work while it's fast cure time makes it a popular choice for tradies and those needing to get jobs done fast.

- Some of the more popular uses for this adhesive include...
- Repair and manufacture of plastic parts and components.
- Installation of internal roofing and ducting.
- Air conditioning and heating installation.
- In vehicle construction and repair.
- Within the marine sector for ship and boat construction and repairs.
- Trade show and exhibition construction.
- For sign making.
- In the metal fabrication and engineering sector.
- For model making and mould construction.
- For the installation of electrical systems, sensors and devices.

Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

Date Created: 24/6/2018

Date Modified: 24/6/2018

Document # SSD-TDS-SWP000254

Properties

Basis	Polyurethane
Colour After Curing	Black
Mix Ratio	1:1
Pack Size	50ml
Nature	Viscous
Density of the Mixture	1.3 – 1.35 g/cm ³
Pot Life (20°C)	90 Seconds
Handling Strength (35%) When Curing at 20°C	5 Minutes
Mechanical Strength (50%) When Curing at 20°C	10 Minutes
Final Strength (100%) When Curing at 20°C	12 Hours
Adhesive Gap Bridging	0.1mm to 0.4mm
Medium Shear Strength acc. To DIN 53283	
Aluminium	13 N/mm ²
Steel (Bright)	19 N/mm ²
Stainless Steel	17 N/mm ²
Medium e-Module at 20°C	650 – 750 N/mm ²
Shore Hardness D (DIN EN ISO 868)	66 Shore D
Tensile Strength max. (ISO 527)	21 N/mm ²
Tensile Elongation max. (ISO 527)	35%
Thermoforming Resistance	+65°C
Temperature Resistance	-55°C to +125°C
IMPA Reference Number	81 29 86

Preparation of the Surface

To ensure good adhesion, the surfaces being joined must be clean and dry (Weicon Surface Cleaner may be ideal). Highest bond strength can be achieved via additional pre-treatment of the surfaces such as sanding, roughening or through the use of other abrasive agents.

Several plastics, particularly polyamide, PTFE (Teflon®) & polyolefin, can only be bonded after special pre-treatment such as fluoridation, low-pressure plasma, corona or flame impingement.

Processing

All Weicon Easy-Mix Adhesives can be processed directly from the double cartridge with the assistance of a compatible dispensing gun (such as the Weicon D 50) and the included mixing nozzle.

Reject the first 5cm of the dosed bear. Apply the adhesive to only one side of the surfaces being bonded. The pot life given is for a material quantity of 10ml at room temperature. If larger quantities are used, pot life will be shortened.

Storage

Easy-Mix PU-90 Polyurethane Adhesive has a minimum shelf-life of 9 months if stored, unopened, in normal climate conditions. This can be extended if kept in cold storage.

Available Sizes

Easy-Mix PU-90 is available from Swift Supplies in 50ml Double Cartridge Packs.

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