

WEICON Easy-Mix PU 90 50 ml

Introduction

WEICON Easy-Mix PU Adhesives are 2-component systems based on polyurethane, which cure fast at room temperature.

Technical data

Basis	Polyurethane
Mixing ratio Resin / Hardener	1:1
Colour after curing	black
Density of the mixture	1,30 - 1,35 g/cm ³
Pot life at +20°C	1,5 min.
Handling strength (35%) after	5 min.
Mechanical loads (50% strength) after	10 min.
Final strength (100%) after	12 hours
Adhesive gap bridging	0,1 - 4,0 mm
on Aluminium (0,26mm)	13 N/mm ²
on Steel bright (0,26 mm)	19 N/mm ²
on Stainless steel (0,26 mm)	17 N/mm ²
Average E-module (+20°C)	650 - 750 N/mm ²
Shore hardness D DIN EN ISO 868	66
Tensile strength ISO 527 max.	21 N/mm ²
Tensile Extension ISO 527 max.	35 %
Temperature resistance	-55 up to +125 °C
Thermoforming resistance	+65 °C
TGA decomposition temperature (Onset temp.)	+330 °C

Pretreatment of the surface

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. are only to be bonded after special surface treatment, for example using fluoridation, low-pressure plasma, corona, flame impingement etc.

Processing

Apply adhesive to only one of the surfaces to be bonded. WEICON Easy-Mix PU-Adhesives will bridge a gap of minimum 0.2 mm and maximum of 4 mm. 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 due to the typical reaction heat of epoxy resins (exothermic reaction). Similarly, higher ambient temperatures shorten the cure time (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.

Physiological properties / health and safety at work

WEICON Easy-Mix PU-Adhesives, when properly handled and completely cured, are toxicologically essentially harmless. When using these adhesives, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Storage

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Only use containers that are approved specifically for the substance/product. Do not store with combustible materials. Keep container tightly closed and store at cool and aired place. Store only at temperature of +40°C maximum. Protect from direct solar radiation. Store in a dry place.

Note

Any product specifications and recommendations given herein 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 warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. 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.

WEICON GmbH & Co. KG (Headquarter)

Königsberger Str. 255 · DE-48157 Münster
P.O. Box 84 60 · DE-48045 Münster
Germany

Tel. +49 (0) 251 / 93 22-0
Fax +49 (0) 251 / 93 22-244
Fax +49 (0) 251 / 93 22-233 Export
www.weicon.de · info@weicon.de

WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216
Dubai · U.A.E

Phone +971 4 880 25 05
Fax +971 4 880 25 09
Mobile +971 50 545 99 83
www.weicon.ae · info@weicon.ae

WEICON Inc.

20 Steckle Place · Unit 20
Kitchener · Ontario · N2E 2C3
Canada

Phone +1 519 896 5252
Fax +1 519 896 5254
Cell +1 519 590 5168
www.weicon.ca · info@weicon.ca

WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi
Arifağa Sokak No: 29 Kat: 3
34530 Yenibosna – İstanbul Turkey
www.weicon.biz.tr · info@weicon.biz.tr

WEICON Romania SRL

Str. Depozitelor 22
540240 Targu Mures, jud. Mures Romania
www.weicon.com · office@weicon.com