

# Easy-Mix Metal Epoxy Adhesive



Ideal for bonding metal parts | highly viscous | fast-curing

WEICON Easy-Mix Metal can be used on numerous materials such as plastic, fibre composites, ceramics, glass, stone, or wood. Suitable for bonds requiring larger tolerances to be bridged and for grouting works.

## Characteristics

Base	epoxy resin	
Texture	viscous	
Colour	grey-green	
Minimum shelf life	at room temperature	18 mon.

## Processing

Processing temperature	+10°C to +30°C	
Curing temperature	+6 °C - +40 °C	
Mixing ratio by weight	1:1	
Density of the mixture	1,8 g/cm <sup>3</sup>	
Gap bridging up to max.	4 mm	

## Curing

Pot life	at 20 °C, 10 ml batch	4-5 min.
Handling strength	(35 % strength)	40 min.
Working strength after	(50 % strength)	2 h
Final strength	(100 % strength)	24 h
Shrinkage		0,3 %

## Mechanical properties after curing

Tensile strength	DIN EN ISO 527-2	24 MPa
E-modulus (tensile)	DIN EN ISO 527-2	4.000 - 4.500 MPa
Compressive strength	DIN EN ISO 604	10 MPa
Bending strength	DIN EN ISO 178	58 MPa
Hardness (Shore D)	DIN ISO 7619	70
Lap shear strength material thicken. 1,5mm DIN EN 1465		
Steel 1.0338 sandblasted		20 N/mm <sup>2</sup>
Aluminium sandblasted		19 N/mm <sup>2</sup>
PVC-rigid roughened		11 N/mm <sup>2</sup>

## Thermal parameters

Temperature resistance	-50°C to +145°C	
Tg after curing at room temperature (DSC)	44,3 °C	
Tg after tempering (at 90°C) (DSC)	32,5 °C	
Temperature conductivity	0,286 mm <sup>2</sup> /s	
Thermal conductivity	DIN EN ISO 22007-4	0,51 W/m·K
Heat capacity	DIN EN ISO 22007-4	0,904 J/(g·K)

## Electrical parameters

Resistance	DIN EN 62631-3-1	4,57·10 <sup>12</sup> Ω·m
Dielectric strength	DIN EN 60243-1 (20°C)	17 kV/mm

## Approvals / Guidelines

ISSA Code	75.530.12
IMPA Code	812952

## Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets ([www.weicon.com](http://www.weicon.com)) must be observed.

## Surface Pre-Treatment

Clean and dry bonding surfaces are essential for flawless adhesive bonding (e.g. cleaning and degreasing with WEICON Surface Cleaner).

## Application

WEICON Easy-Mix products can be processed straight from the double cartridge by means of the included static mixer. Dismiss the first 5 cm of the adhesive bead. The adhesive is applied to just one side. The specified pot life refers to a material batch of 10 ml at room temperature. Larger batch quantities will result in faster curing. Higher temperatures also reduce the pot life and curing time. (General rule: every increase by +10 °C above room temperature results in a decrease of the pot life and curing time by half). Temperatures below +16 °C increase the pot life and curing time significantly. From approx. +5 °C and below, no reaction takes place.

## Storage

WEICON epoxy adhesives should be stored in a dry place at room temperature. Unopened containers can be stored at temperatures from +18 °C to +25 °C. Protect from direct sunlight. Failure to observe these storage instructions will reduce the shelf life to 6 months. Epoxy resins generally tend to crystallise at temperatures below +5 °C. This effect is increased by large temperature fluctuations, e.g.

## 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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during transport especially in the winter months. This has a negative impact on processing, curing and technical data, can, however, be reversed by heating the product (up to max. +50 °C, no open flame). In WEICON epoxy adhesives, crystallisation is reduced by the careful choice and combination of base resins (bisphenol A and F).

## Scope of delivery

Adhesive

## Accessories

10005237 Dispenser Easy-Mix D 50, 1 PCE  
10026925 Helix Mixing Nozzle A, 1 PCE, white  
10068261 Dosing Tip A Size 0,5 mm, 1 PCE  
10101999 WEICON Manual Dispenser, 1 x 1:1 | 2:1

## Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
$\text{mm}/25.4 = \text{inch}$	$\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25.4 = \text{mil}$	$\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0.225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

## Available sizes

10018047 Easy-Mix Metal Epoxy Adhesive, 50 ml, grey-green

To the product detail page:



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