

## Epoxy adhesives

# Easy-Mix S 50 yellow



visually identifiable casting compound | resistant to high temperatures | fast-curing | impact-resistant

WEICON Easy-Mix S 50 yellow is a highly reactive casting compound. It can also be used as an adhesive owing to its high adhesive strength and short curing time. The epoxy resin system, which is resistant to high temperatures of up to +180 °C, is viscous, self-levelling, cures quickly and is impact-resistant in its hardened state. The casting compound has a short pot life of 4-5 minutes. The compound adheres excellently to many different surfaces, such as metal, plastics, fibreglass-reinforced plastics, wood, glass, ceramics and stone. The casting compound can be used in electronic engineering for protecting electronic components, semiconductors and building components. It protects components against moisture, dust and dirt as well as mechanical stresses. Easy-Mix S 50 yellow is suitable for applications in many different areas, such as grouting work in electrical engineering and the electronics industry, for casting cable connections, for applications in insulating technology, in metal construction, in tank and apparatus construction, fittings construction, and in ventilating and air-conditioning systems. Thanks to its distinctive yellow colour, Easy-Mix S 50 yellow makes visual control simple. The casting compound is processed with the user-friendly Easy-Mix system.

The Dispenser Easy-Mix D 50 is required for processing Easy-Mix products in 50 ml cartridges.

### Characteristics

Base	Epoxy
Filler	unfilled
Texture	liquid
Colour	yellow
Minimum shelf life	at room temperature 18 mon.

### Note

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### Processing

Processing temperature	+15 °C to +40 °C
Component temperature	>3°C above dew point
Cure temperature	+6 °C to +40 °C
Relative air humidity	max. 85%
Mixing ratio by volume	1:1
Viscosity of the mixture	at +20 °C 4,500 mPa·s
Density of the mixture	1,2 g/cm³
Gap bridging up to max.	2 mm

### Curing

Pot life	at 20 °C, 10 g batch	4-5 min.
Handling strength	(35 % strength)	17 min.
Working strength after	(80 % strength)	30 min.
Final strength	(100 % strength)	24 h
Shrinkage		1,06 %

### Mechanical properties after curing

- Measured after curing at		24 h RT + 24 h 60 °C
Tensile strength	DIN EN ISO 527-2	39 N/mm²
Elongation at break (tensile)	DIN EN ISO 527-2	2 %
E-modulus (tensile)	DIN EN ISO 527-2	1.800 - 2.100 MPa
Compressive strength	DIN EN ISO 604	30 MPa
Bending strength	DIN EN ISO 178	58 MPa
Hardness (Shore D)	DIN ISO 7619	81 ± 3
Lap shear strength material thickn. 1,5mm DIN EN 1465		
Steel 1.0338 sandblasted		21 N/mm²
Stainless steel V2A sandblasted		23 N/mm²
Aluminium sandblasted		12 N/mm²
Galvanized steel		13 N/mm²
PVC-rigid roughened		13 N/mm²

### Thermal parameters

Temperature resistance	-50 °C to +180 °C (-58 °F to +356 °F)
Thermal conductivity	DIN EN ISO 22007-4 0,24 W/m·K
Heat capacity	DIN EN ISO 22007-4 1,482 J/(g·K)

### Electrical parameters

Resistance	DIN EN 62631-3-1 1,03·10 <sup>11</sup> Ω·m
Dielectric strength	DIN EN 60243-1 (20°C) 20 kV/mm
Magnetic	no

### Approvals / Guidelines

ISSA Code	75.629.51
IMPA Code	812975
MIL-Spec	complies with MIL-T-83523

### 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.

# Easy-Mix S 50 yellow

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. 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 | Quadro Mixing Nozzle A

## Accessories

10005237 Dispenser Easy-Mix D 50, 1 PCE  
10101999 WEICON Manual Dispenser, 1 x 1:1 | 2:1  
10005236 Quadro Mixing Nozzle A, 1 PCE, blue  
10068261 Dosing Tip, 1 PCE

## Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm² x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

## Available sizes

10017543 Easy-Mix S 50 yellow, 50 ml, yellow

To the product detail page:



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