

Easy-Mix S 50 yellow



Visual casting compound | solventfree | fast-curing | shock-resistant | impact-resistant | high adhesive strength

WEICON Easy-Mix S 50 yellow is a highly reactive casting compound, which can also be used as an adhesive due to its high adhesive strength and fast cure. The epoxy resin system is viscous, self-levelling and cures fast and with high impact resistance. The casting compound shows high adhesive strength and a short pot life of 4-5 minutes. The compound adheres well to many different surfaces, such as metal, plastics, fibreglass-reinforced plastics, wood, glass, ceramic 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 works in electrical engineering and the electronics industry, for casting cable connections, for applications in the insulating technology, in metal construction, in tank and apparatus construction, in fittings and in ventilating and air-conditioning systems. Due to its distinctive yellow colour, Easy-Mix S 50 yellow facilitates visual control. The casting compound is processed with the user-friendly Easy-Mix system.

Characteristics

Base	Epoxy resin, non-filled
Texture	viscous
Colour	yellow

Processing

Processing temperature	+10°C to +30°C
Curing temperature	+6 °C - +40 °C
Mixing ratio by weight	1:1
Viscosity of the mixture	at +20 °C 8.500 mPa·s
Density of the mixture	1,2 g/cm ³
Gap bridging up to max.	2 mm

Curing

Pot life	at 20 °C, 10 ml batch	4-5 min.
Handling strength	(35 % strength)	30 min.
Working strength after	(50 % strength)	1 h
Final strength	(100 % strength)	24 h
Shrinkage		2 %

Mechanical properties after curing

Tensile strength	DIN EN ISO 527-2	40 MPa
E-modulus (tensile)	DIN EN ISO 527-2	2.000-2.500 MPa
Compressive strength	DIN EN ISO 604	9 MPa
Bending strength	DIN EN ISO 178	58 MPa
Hardness (Shore D)	DIN ISO 7619	65
Lap shear strength material thckn. 1,5mm DIN EN 1465		
Steel 1.0338 sandblasted		20 N/mm ²
Aluminium sandblasted		19 N/mm ²
PVC-rigid roughened		13 N/mm ²

Thermal parameters

Temperature resistance		-50°C to +80°C
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 ¹¹ Ω·m
Dielectric strength	DIN EN 60243-1 (20°C)	20 kV/mm

Approvals / Guidelines

ISSA Code	75.629.51
IMPA Code	812975

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) 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).

Processing

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

When stored in unopened condition in a dry place at constant room temperature of approx. +20°C, WEICON Epoxy Adhesives have a shelf life of at least 18 months. Protect from direct sunlight. In case of non-observance of these

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storage instructions, the shelf life is reduced to 6 six months. In general, epoxy resins 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 combinations of base resins (bisphenol A and F).

Scope of delivery

Adhesive | Quadro Mixing Nozzle

Accessories

- 10005237 Dispenser Easy-Mix D 50, 1 PCE
- 10005236 Quadro Mixing Nozzle A, 1 PCE
- 10026925 Helix Mixing Nozzle A, 1 PCE
- 10068261 Dosing Tip, 1 PCE

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

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

To the product detail page:



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