

Easy-Mix S 50 yellow



Visual casting compound, solvent-free, 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 electrical 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.

Technical Data

Base	epoxy resin, non-filled
Texture	viscous
Colour	yellow
Mixing ratio by weight (Resin / Hardener)	1:1
Density of the mixture	1,20 g/cm ³
Viscosity of the mixture at 20°C (+68°F)	8.500 mPa·s
Adhesive gap bridging up to max.	2 mm
Processing temperature	+10 to +30 °C
Curing temperature	+6 to +40 °C

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.

Pot life at 20°C (+68°F) for 10ml material	4-5 min.
Handling strength (35% strength) after	30 min.
Capable of bearing mechanical loads (50% strength) after	1 h
Final strength (100%) after	24 h
Medium strength of the pure epoxy resin according to DIN EN 1465	
Pressure	9 Mpa
Pull	40 Mpa
Bending	58 Mpa
E-Modul	2.000-2.500 Mpa
Shore hardness D	65
Medium shear strength according to DIN EN 1465 at	
Steel sand blasted	20 N/mm ²
Alu sandblasted	19 N/mm ²
PVC hard-roughened	13 N/mm ²
Linear shrinkage	2,0 %
Temperature resistance	-50 to +80 °C
Thermal conductivity	0,24 W/m·K
Specific heat capacity	1,482 J/(g·K)
Resistivity	1,03 · 10 ¹¹ Ωm

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 storage instructions, the shelf life is reduced to 6 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, it 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).

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Safety and health

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.

Available sizes:

10651050 Easy-Mix S 50 yellow 50 ml

Accessories:

10650005 Mixing Nozzles Easy-Mix,
10653050 Dispenser Easy-Mix D 50,
12955175 Dosing Tips,

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