

# Easy-Mix S 50 Epoxy Adhesive



**extremely high adhesive force**  
**viscous, self-levelling**  
**very short pot life, fast-curing**

WEICON Easy-Mix S 50 can be used on numerous materials such as metal, plastic, fibre reinforced materials, ceramics, glass, stone and wood.

It is suited for quick repair and maintenance work and is ideal for industrial series production with short cycle times.

WEICON Easy-Mix S 50 can be used in many industrial sectors.

## Technical Data

Composition	Epoxy resin unfilled
Composition	viscous
Colour	transparent
Mixing ratio by weight (Resin / Hardener)	1:1
Density of the mixture	1,15 g/cm <sup>3</sup>
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
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
Tg after curing at room temperature	44,7 Tg (°C)
Tg after tempering (at 90 °C)	46,1 Tg (°C)
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 <sup>2</sup>
Alu sandblasted	19 N/mm <sup>2</sup>
PVC hard-roughened	13 N/mm <sup>2</sup>
Linear shrinkage	2,0 %
Temperature resistance	-50 to +80 °C
Thermal diffusivity (23°C)	0,133 mm <sup>2</sup> /s
Thermal conductivity	0,24 W/m·K
Specific heat capacity	1,482 J/(g·K)
Resistivity	1,03 · 10 <sup>11</sup> Ωm

## Surface pre-treatment

To ensure a perfect bond, the surfaces to be joined must be clean and dry (e.g., clean and degrease using WEICON Surface Cleaner).

## Processing

WEICON Easy-Mix products can be processed directly from the double cartridges with the help of the included static mixer. Reject the first 5 cm of the dosed bead. Apply adhesive to only one of the surfaces to be bonded. 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. Similarly, higher ambient temperatures shorten the cure times (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.

## Storage

When kept at a constant room temperature of about +20°C and unopened in dry conditions, WEICON Epoxy Adhesives will keep for at least 18 months. Avoid direct sunlight. If these storage instructions are disregarded, the storage life will be reduced to 6 months. Epoxy resins are fundamentally liable to crystallise at temperatures of less than +5°C. This effect is accentuated by wide variations in temperature such as can frequently occur during transport in winter. This also has a negative effect on working qualities, curing and technical details, although these effects can be reversed by warming up to a maximum of +50°C (no naked flame). In the case of WEICON Epoxy Adhesives, careful selection and combination of the base resins (bisphenol A and F) ensures a reduction of crystallisation.

## Safety and health

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

## Available sizes:

10650050 Easy-Mix S 50 Epoxy Adhesive 50 ml

## 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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**Accessories:**

10650005	Mixing Nozzles Easy-Mix, Quadro
10653050	Dispenser D 50, 50 ml
12955170	Dosing Tips, Size 0
12955175	Dosing Tips, Typ A Size 0,5

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