

# WEICON B Epoxy Resin



## viscous steel-filled

WEICON B is particularly suited for detailed reproductions in model and mould making, for the production of tools, templates, gauges and fixtures, for filling in blowholes and microporosities, in castings and for general repair work where a casting compound is advantageous.

WEICON B can be used in machine construction, tool construction, model and mould making, and in many other applications.

### Technical Data

Composition	Epoxy resin steel-filled
Specific Properties	viscous
Colour after curing	dark-grey
Mixing ratio by weight resin/hardener	100:7
Density of the mixture (200g preparation)	2.75 g/cm <sup>3</sup>
Viscosity of the mixture	200.000 mPa·s
Consumption at a coating thickness of 1,0 mm	2,75 kg/m <sup>2</sup>
Maximum layer thickness for each working step	10 mm
Pot life at +20°C (+68°F) 200g preparation	60 min.
Curing time mechanical loads	16 h
Final hardness after	24 h
Mean strength at +25°C (+77°F) acc. to DIN EN 1465/ASTM D 1002:	
Pressure	110 Mpa
Pull	21 Mpa
Bending	52 Mpa
E-Modul	3.500 - 5.000 Mpa
Shore D (ATSM D 1706)	90
Shrinkage	0.03 %
Tg after curing at room temperature	56,5 Tg (°C)
Tg after tempering (at 120 °C)	54 Tg (°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.

Thermoforming resistance	65 °C
Temperature resistance	-35 to +120 °C
Medium shear strength according to DIN EN 1465 at	
Steel sand blasted	14 MPa
Sandblasted stainless steel	13 MPa
Sand-blasted Aluminium	8 MPa
Galvanized steel	6 MPa
Resistivity	5,81 * 10 <sup>12</sup> Ωm
Thermal diffusivity (23°C)	0,437 mm <sup>2</sup> /s
Thermal conductivity	0,74 W/m·K
Specific heat capacity	0,675 J/(g·K)
ISSA-Code	75.509.03/04
IMPA-Code	812905/06

Information about surface pre-treatment and processing can be found in the manual.

### Storage

Store WEICON Plastic Metal at room temperature (but up to max. +25°C) in a dry place. Unopened containers can be stored for 18 months at temperatures from +18 to +28°C (Epoxy Resin Putty max. 3 years). Opened containers should be used within 6 months.

### 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:

10050002	WEICON B Epoxy Resin 0,2 kg
10050005	WEICON B Epoxy Resin 0.5 kg
10050020	WEICON B Epoxy Resin 2.0 kg

### Accessories:

10850005	Glass Fibre Cloth Tape, 50 mm x 1 m
10953001	Processing Spatula, short
10953003	Processing Spatula, long
10953010	Stirrer Stainless Steel,
10953020	Contour Spatula Flexy,

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