

WEICON BR Epoxy Resin



pasty
bronze-filled

WEICON BR is particularly suited for filling in blowholes and for repairing and rebuilding bronze equipment parts and castings.

It can be used in tool construction, model and mould making, and in many other industrial applications.

Technical Data

Composition	Epoxy resin bronze-filled
Specific Properties	pasty
Colour after curing	bronze
Mixing ratio by weight resin/hardener	100:100
Density of the mixture (200g preparation)	1,8 g/cm ³
Viscosity of the mixture	650.000 mPa·s
Consumption at a coating thickness of 1,0 mm	1,80 kg/m ²
Maximum layer thickness for each working step	12 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	95 Mpa
Pull	29 Mpa
Bending	35 Mpa
E-Modul	2.500 - 3.000 Mpa
Shore D (ATSM D 1706)	75
Shrinkage	0,02 %
Tg after curing at room temperature	47,2 Tg (°C)
Tg after tempering (at 120 °C)	46,2 Tg (°C)
Thermoforming resistance	+50 °C
Temperature resistance	-35 to +120 °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.

Medium shear strength according to DIN EN 1465 at	
Steel sand blasted	18 MPa
Sandblasted stainless steel	20 MPa
Sand-blasted Aluminium	12 MPa
Galvanized steel	7 MPa
Resistivity	1,80 * 10 ¹² Ωm
Thermal diffusivity (23°C)	0,365 mm ² /s
Thermal conductivity	0,54 W/m·K
Specific heat capacity	0,820 J/(g·K)
ISSA-Code	75.509.05/06
IMPA-Code	812910/11

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) must be observed.

Available sizes:

10420002	WEICON BR Epoxy Resin 0,2 kg
10420005	WEICON BR Epoxy Resin 0.5 kg
10420020	WEICON BR Epoxy Resin 2.0 kg

Accessories:

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

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