

WEICON HB 300 Epoxy Resin



pasty
steel-filled
high temperature resistant

WEICON Plastic Metal type HB 300 is pasty, steel-filled and high temperature resistant up to +200°C (briefly up to +280°C). It is processed with a mixing ratio of 1:1.

WEICON HB 300 is also suitable for applications on vertical surfaces and can be used for the repair and bonding of cast and metal parts, for filling in blow holes, for repairing damage to containers, carriages and machine parts and for sealing pumps and pipes.

WEICON HB 300 can be used in machine and system construction, in apparatus engineering, and in many other industrial applications.

Technical Data

Composition	Epoxy resin steel-filled
Specific Properties	putty, high-temp. resistant
Colour after curing	dark-grey
Mixing ratio by weight resin/hardener	100:100
Density of the mixture (200g preparation)	2,34 g/cm ³
Viscosity of the mixture	1.700.000 mPa·s
Consumption at a coating thickness of 1,0 mm	2,34 kg/m ²
Maximum layer thickness for each working step	20 mm
Pot life at +20°C (+68°F) 200g preparation	30 min.
Curing time mechanical loads	12 h
Final hardness after	24 h
Mean strength at +25°C (+77°F) acc. to DIN EN 1465/ASTM D 1002:	
Pressure	100 Mpa
Pull	27 Mpa
Bending	42 Mpa
E-Modul	9.500 - 10.000 Mpa
Shore D (ATSM D 1706)	85

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.

Shrinkage	0,015 %
Tg after curing at room temperature	57,1 Tg (°C)
Tg after tempering (at 120 °C)	92,4 Tg (°C)
Thermoforming resistance	+120 °C
Temperature resistance	-35 to +200 briefly to +280 °C
Resistivity	1,49 · 10 ¹³ Ωm
Thermal diffusivity (23°C)	0,345 mm ² /s
Thermal conductivity	0,53 W/m·K
Specific heat capacity	0,629 J/(g·K)
ISSA-Code	75.509.21
IMPA-Code	812951

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:

10450002	WEICON HB 300 Epoxy Resin 0,2 kg
10450010	WEICON HB 300 Epoxy Resin 1.0 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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