

# WEICON F Epoxy Resin



**pasty**  
**aluminium-filled**  
**non-corrosive and anti-magnetic**

WEICON F is particularly suited for applications on components made from aluminium, aluminium alloys, magnesium and other light metals. WEICON F can be used for inexpensive repairs of all types, for filling in blowholes on light metal castings and for the reconstruction of components.

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

## Technical Data

Composition	Epoxy resin aluminium-filled
Specific Properties	pasty
Colour after curing	aluminium
Mixing ratio by weight resin/hardener	100:20
Density of the mixture (200g preparation)	1,6 g/cm <sup>3</sup>
Viscosity of the mixture	880.000 mPa·s
Consumption at a coating thickness of 1,0 mm	1,60 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	61 Mpa
Pull	20 Mpa
Bending	37 Mpa
E-Modul	1.500 - 2.000 Mpa
Shore D (ATSM D 1706)	84
Shrinkage	0,02 %
Tg after curing at room temperature	56,9 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.

Tg after tempering (at 120 °C)	67,9 Tg (°C)
Thermoforming resistance	+60 °C
Temperature resistance	-35 to +120 °C
Resistivity	8,07 * 10 <sup>12</sup> Ωm
Thermal diffusivity (23°C)	0,908 mm <sup>2</sup> /s
Thermal conductivity	1,39 W/m·K
Specific heat capacity	0,890 J/(g·K)
ISSA-Code	75.509.09/10
IMPA-Code	812921/22

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:

10150002	WEICON F Epoxy Resin 0,2 kg
10150005	WEICON F Epoxy Resin 0.5 kg
10150020	WEICON F 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,