

# WEICON WR



**liquid  
steel-filled  
wear resistant**

WEICON WR is suitable for areas where metal parts are subjected to strong wear due to friction, as repairs and recasting of shafts, for pouring out bearings and cutting and punching tools, for the production of casting and profile milling models as well as drawing moulds, for under pouring machines and foundations and as a wear-resistant under layer before the final coating with WEICON Ceramic BL.

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

## Technical Data

Base	Epoxy resin steel-filled
Specific Properties	liquid, wear resistant
Colour after curing	black
Mixing ratio by weight resin/hardener	100:15
Density of the mixture (200g preparation)	2,3 g/cm <sup>3</sup>
Viscosity of the mixture	20.000 mPa·s
Consumption at a coating thickness of 1,0 mm	2,30 kg/m <sup>2</sup>
Maximum layer thickness for each working step	10 mm
Pot life at +20°C (+68°F) 200g preparation	45 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	33 Mpa
Bending	80 Mpa
E-Modul	5.000 - 5.500 Mpa
Shore D (ATSM D 1706)	90

## 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	0,02 %
Tg after curing at room temperature	53,8 Tg (°C)
Tg after tempering (at 120 °C)	70,1 Tg (°C)
Thermoforming resistance	+65 °C
Temperature resistance	-35 to +120 °C
Resistivity	1,87 · 10 <sup>12</sup> Ωm
Thermal diffusivity (23°C)	0,717 mm <sup>2</sup> /s
Thermal conductivity	1,05 W/m·K
Specific heat capacity	0,607 J/(g·K)
ISSA-Code	75.509.15/16
IMPA-Code	812947/48

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:

10300002	WEICON WR 0,2 kg
10300005	WEICON WR 0.5 kg
10300020	WEICON WR 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,