

# Plastic Metal BL



**liquid**  
**mineral-filled, extremely wear resistant**  
**high temperature resistant from -35°C up to +180°C**  
**certified by DNV GL**

WEICON Ceramic BL is liquid, brushable, filled with silicium carbide and zirconium silicate, temperature resistant up to +180°C and resistant to chemicals. It offers extreme wear protection and high abrasion resistance.

WEICON Ceramic BL is particularly suited for the lining of heavily stressed pump housings, as wear protection for slide bearings, slides, funnels and pipes and for the repair of castings, valves and blower fans. The product can be used in machine and system construction, the maritime industry and in many other applications.



## Technical Data

Base	Epoxy resin mineral-filled
Specific Properties	liquid, extremely wear resistant
Colour after curing	blue
Mixing ratio by weight resin/hardener	100:8
Density of the mixture (200g preparation)	1,8 g/cm <sup>3</sup>
Viscosity of the mixture	25.000 mPa·s
Consumption at a coating thickness of 1,0 mm	1,80 kg/m <sup>2</sup>
Maximum layer thickness for each working step	10 mm
Pot life at +20°C (+68°F) 200g preparation	55 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	120 Mpa
Pull	22 Mpa

### 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.

Bending	80 Mpa
E-Modul	7.000 - 8.000 Mpa
Shore hardness D (ATSM D 1706)	93
Shrinkage	0,02 %
Tg after curing at room temperature	51,9 °C
Tg after tempering (at 120 °C)	69,2 °C
Thermoforming resistance	+95 °C
Temperature resistance	(-31°F) -35 to (+356°F) +180 °C
Resistivity	5,75 * 10 <sup>11</sup> Ωm
Thermal diffusivity (23 °C)	0,344 mm <sup>2</sup> /s
Thermal conductivity	0,56 W/m·K
Specific heat capacity	0,911 J/(g·K)
ISSA-Code	75.509.19/20
IMPA-Code	812937/38

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 36 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:

10400002	Plastic Metal BL 0,2 kg
10400005-35	Plastic Metal BL 0.5 kg
10400020-35	Plastic Metal BL 2.0 kg

### Accessories:

10710001	Pipe Repair-Kit, 5/15 (5 cm x 1,5 m)
10710002	Pipe Repair-Kit, 5/35 (5 cm x 3,5 m)
10710003	Pipe Repair-Kit, 10/35 (10 cm x 3,5 m)
10710004	Pipe Repair-Kit, 12/100 (12,5 cm x 10 m)
10850005	Glass fibre cloth tape, 50 mm x 1 m
10953001	Processing Spatula,
10953003	Processing Spatula,
10953010	Epoxy Mixing Propeller,
10953020	Contour Spatula Flexy,

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