

# Plastic Metal UW



**Paste-like, mineral-filled, cures under water as well as on wet and damp surfaces**

WEICON UW is a 2-component epoxy resin, which is fast-curing and especially suitable for repair works, for example on pipes, pumps, tanks and containers.

Due to its special formula, WEICON UW shows very good adhesion in underwater applications to different materials and can therefore be used in the entire marine and shipping sector, in sewage systems and wherever wetness and moisture can otherwise cause adhesive problems.

**Technical Data**

Base	Epoxy resin mineral-filled
Specific Properties	pasty, cures even under water
Colour after curing	white
Mixing ratio by weight resin/hardener	100:100
Density of the mixture (200g preparation)	1,35 g/cm³
Viscosity of the mixture	670.000 mPa·s
Consumption at a coating thickness of 1,0 mm	1,35 kg/m²
Maximum layer thickness for each working step	12 mm
Pot life at +20°C (+68°F) 200g preparation	20 min.
Curing time mechanical loads	4 h
Final hardness after	24 h
Mean strength at +25°C (+77°F) acc. to DIN EN 1465/ASTM D 1002:	
Pressure	60 Mpa
Pull	30 Mpa
Bending	38 Mpa
E-Modul	2.000 - 2.500 Mpa
Shore hardness D (ATSM D 1706)	70
Shrinkage	0,02 %
Tg after curing at room temperature	42,8 °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)	36,4 °C
Thermoforming resistance	+50 °C
Temperature resistance	(-31°F) -35 to (+248°F) +120 °C
Resistivity	1,64 * 10 <sup>11</sup> Ωm
Thermal diffusivity (23 °C)	0,182 mm²/s
Thermal conductivity	0,28 W/m·K
Specific heat capacity	1,178 J/(g·K)
ISSA-Code	75.509.24/25
IMPA-Code	812935/36

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 24 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:**

- 10440002 Plastic Metal UW 0,2 kg
- 10440005-35 Plastic Metal UW 0.5 kg
- 10440020-35 Plastic Metal UW 2.0 kg

**Accessories:**

- 10850005 Glass fibre cloth tape, 50 mm x 1 m
- 10953001 Processing Spatula,
- 10953003 Processing Spatula,
- 10953020 Contour Spatula Flexy,