

WEICON HP Epoxy Resin



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

WEICON HP is a 2-component epoxy resin with longer curing time, enormous shock resistance as well as high residual elasticity and abrasion resistance.

Due to its high elongation at break and paste-like texture, WEICON HP can be used for repairs, as abrasion protection as well as for lining heavily stressed equipment.

The adhesive also shows excellent adhesion to wet and damp surfaces and in underwater applications.

Technical Data

Composition	epoxy resin mineral-filled
Specific Properties	pasty, wear-resistant
Colour after curing	white
Mixing ratio by weight resin/hardener	100:83
Density of the mixture (200g preparation)	1,48 g/cm ³
Viscosity of the mixture	550.000 mPa·s
Maximum layer thickness for each working step	10 mm
Pot life at +20°C (+68°F) 200g preparation	30 min.
Handling strength at room temperature	16 h
Final hardness after	48 h
Tensile strength	21 Mpa
Elongation at break (DIN EN ISO 527)	6 %
Impact strength (ISO 179-1/1eU)	20,6 kJ/m ²
Pressure	65 Mpa
Bending	50 Mpa
E-Modul	1.400 - 2.000 Mpa
Shore D (ATSM D 1706)	76
Linear shrinkage	0,02 %
Tg after curing at room temperature	64,2 Tg (°C)

Tg after tempering (at 120 °C)	87,3 Tg (°C)
Thermoforming resistance	+80 °C
Temperature resistance	-35 bis +160°C °C
TGA desomposition temperature (Onset-Temp.)	+ 208 °C
Resistivity	5,83 · 10 ¹¹ Ωm
Thermal diffusivity (23°C)	0,260 mm ² /s
Thermal conductivity	0,38 W/m·K
Specific heat capacity	1,060 J/(g·K)

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:

10390002	WEICON HP Epoxy Resin 0,2 kg
10390005	WEICON HP Epoxy Resin 0,5 kg
10390020	WEICON HP Epoxy Resin 2,0 kg

Accessories:

10953001	Processing Spatula, short
10953003	Processing Spatula, long
10953020	Contour Spatula Flexy,

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.

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