

# WEICON HP Epoxy Resin



Tensile strength	21 MPa
Flexural strength	50 MPa
Elastic modulus	1,400 - 2,000 MPa
Shore D	76
Impact strength ISO 179-1/1eU	20.6 kJ / m <sup>2</sup>
Elongation at break DIN EN ISO 527	6 %
Temperature resistance	-35 bis +160°C
Thermoforming resistance ISO 75	+80°C
Decomposition temperature TGA/Onset-Temp.	+208°C
Shrinkage	0,02 %

Information about surface pre-treatment and processing can be found in the manual.

### Storage

Store WEICON HP at room temperature (+20°C) in a dry place. Unopened containers can be stored at temperatures from +18 to +28°C for at least 24 months as of the delivery date.

### 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:

10390005	HP 0.5 kg
10390020	HP 2.0 kg

### Accessories:

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

### Pasty, mineral-filled, impact-resistant

WEICON HP is a practically shrink-free 2 - component epoxy resin with extremely high impact resistance and high abrasion resistance. After curing, the material has a residual elasticity.

The pasty epoxy resin system can be used as a high-performance solution especially for structural adhesive bondings. Due to its high elongation at break, WEICON HP can also be used for repairs on strongly vibrating machines, as wear protection for slide bearings, chutes and pipes as well as for lining heavily stressed pump housings.

The adhesive can be used universally on nearly all surfaces. Its pasty texture makes it non-drip and spreadable. That way, it can also be used on vertical surfaces and even for overhead applications.

WEICON HP can be used in machine construction and systems engineering, in apparatus engineering as well as in many other industrial sectors.

### Technical Data

Base	epoxy resin mineral-filled
Colour	white
Specific properties	pasty, wear-resistant
Mixing ratio by weight (resin/hardener)	100:83
Pot life at +20°C (200g preparation)	30 min.
Density of the mixture	1.4 g/cm <sup>3</sup>
Viscosity of the mixture	550,000 mPa·s
Maximum layer thickness for each working step	10 mm
Capable of bearing mechanical loads after	16 h
Final strength after	48 h
Average strength values at +25°C acc. to DIN 53281-8	
Compressive strength	65 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.