

WEICON Ceramic W



pasty
mineral-filled
extremely wear resistant

WEICON Ceramic W is pasty, mineral-filled, temperature-resistant up to +150°C (briefly up to +260°C) and resistant to chemicals. It offers high wear protection and abrasion resistance.

WEICON Ceramic W has a non-sag property and can be spread with a spatula. It can be applied on vertical surfaces and even overhead.

WEICON Ceramic W is suited for the bonding or lining of aluminium oxide stones in mill construction, for the lining of heavily stressed pump housings, as wear protection for slide bearings, slides and pipes and wherever darker products are not desired for optical reasons.

WEICON Ceramic W can be used in machine and system construction, mill construction, apparatus engineering, and in many other industrial applications.

Technical Data

Composition	Epoxy resin mineral-filled
Specific Properties	putty, extremely wear resistant
Colour after curing	white
Mixing ratio by weight resin/hardener	100:33
Density of the mixture (200g preparation)	1,59 g/cm ³
Viscosity of the mixture	600.000 mPa·s
Consumption at a coating thickness of 1,0 mm	1,59 kg/m ²
Maximum layer thickness for each working step	10 mm
Pot life at +20°C (+68°F) 200g preparation	120 min.
Curing time mechanical loads	24 h
Final hardness after	48 h
Mean strength at +25°C (+77°F) acc. to DIN EN 1465/ASTM D 1002:	
Pressure	140 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.

Pull	30 Mpa
Bending	90 Mpa
E-Modul	4.500 - 5.000 Mpa
Shore D (ATSM D 1706)	85
Shrinkage	0,02 %
Tg after curing at room temperature	60,3 Tg (°C)
Tg after tempering (at 120 °C)	144 Tg (°C)
Thermoforming resistance	+150 °C
Temperature resistance	-35 to +200 briefly to +260 °C
Resistivity	3,44 · 10 ¹² Ωm
Thermal diffusivity (23°C)	0,457 mm ² /s
Thermal conductivity	0,65 W/m·K
Specific heat capacity	0,874 J/(g·K)
ISSA-Code	75.509.26/27
IMPA-Code	812941/42

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

*To achieve a permanently high temperature resistance, we recommend to temper-harden after 48 hours as detailed below: 3 h at +50°C, 2 h at +90°C, 2 h at +130°C, finally 1 h at +170°C

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:

10460002	WEICON Ceramic W 0,2 kg
10460005	WEICON Ceramic W 0,5 kg
10460020	WEICON Ceramic W 2,0 kg

Accessories:

10850005	Glass Fibre Cloth Tape, 50 mm x 1 m
10953001	Processing Spatula, short
10953003	Processing Spatula, long
10953020	Contour Spatula Flexy,