

Plastic Metal WP



Ceramic-bead-filled Pasty Impact Resistant Wearing Compound

WEICON WP is suitable for the protection of strongly used surfaces. The coating with Plastic-Metal WP provides a high resistance against abrasion and wear and is very resistant against chemicals.

It avoids metal loss and replaces previously applied wear-resistant alloys, ceramic tiles and rubber linings as well as welded metal coatings.

WEICON WP can be used for the regeneration of worn-out metal surfaces or as a wear-resistant coating. A particularly high level of protection is achieved, when the wear is caused done by particles impacting sideways.

Technical Data

Base	Epoxy resin ceramic-filled
Specific Properties	pasty, wear resistant, non-sag
Colour after curing	grey
Mixing ratio by weight resin/hardener	100:100
Density of the mixture (200g preparation)	2,5 g/cm ³
Viscosity of the mixture	900.000 mPa·s
Consumption at a coating thickness of 1,0 mm	2,50 kg/m ²
Maximum layer thickness for each working step	10 mm
Pot life at +20°C (+68°F) 200g preparation	30 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	51 Mpa
Pull	22 Mpa
Bending	35 Mpa
E-Modul	2.500 - 3.000 Mpa
Shore hardness D (ATSM D 1706)	80

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.

Shrinkage	0,02 %
Tg after curing at room temperature	63,6 °C
Tg after tempering (at 120 °C)	87,3 °C
Thermoforming resistance	+50 °C
Temperature resistance	(-31°F) -35 to (+248°F) +120 °C
Resistivity	2,22 · 10 ¹² Ωm
Thermal diffusivity (23 °C)	0,466 mm ² /s
Thermal conductivity	0,80 W/m·K
Specific heat capacity	0,784 J/(g·K)
IMPA-Code	812957/58

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) must be observed.

Available sizes:

10490002	Plastic Metal WP 0,2 kg
10490020-35	Plastic Metal WP 2.0 kg
10490100	Plastic Metal WP 10.0 kg

Accessories:

10850005	Glass fibre cloth tape, 50 mm x 1 m
10953001	Processing Spatula,
10953003	Processing Spatula,