WEICON®

Plastic Metal

WEICON WP

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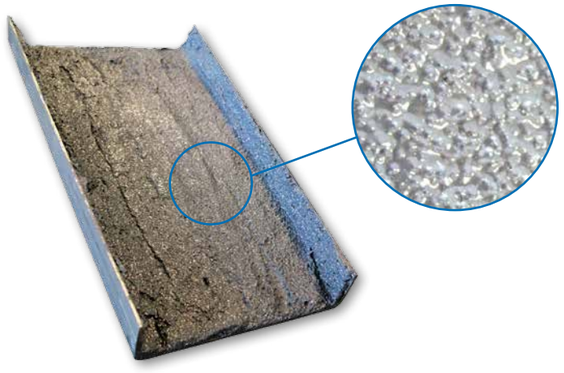
Wear protection for extreme abrasion

WEICON WP is a ceramic filled, pasty, two-component epoxy resin system for the protection of strongly used surfaces. The coating with WEICON WP provides a high resistance against abrasion and wear and is very good 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 by particles impacting sideways.

2,0 kg	10,0 kg
10490020	10490100



Characteristics and advantages:

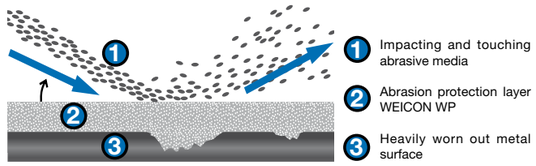
- Extreme high resistance against abrasion and wear – high strength
- Residual elasticity and impact resistant
- Very good resistance against chemical substances
- Economic in use

Application fields:

WEICON WP is versatile in use, for example:

- Slides, chutes, container
- Pumps
- Worm housings and spiral conveyors
- Friction plates
- Wood chip and transport blowing machines
- Pulverization plants
- Centrifuges, separators
- Dust filter systems, fly ash filter systems
- Ventilation fan systems

Conveyor screw in a gravel plant



Cross-Section of Plastic Metal WP abrasion layer

Technical Data

Basis	Epoxy resin ceramic-filled
Specific Properties	pasty, wear resistant, non-sag
Mixing ratio by weight % (Resin/Hardener)	100:100
Pot life +20°C (200 g preparation)	approx. 30 Min.
Density of the mixture	2,5 g/cm³
Viscosity of the mixture	900.000 mPa·s *(cP)*
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
Final hardness	96 h
Mean compressive strength (+25°C) DIN 53281-83	51 MPa *(7.400 psi)*
Mean tensile strength (+25°C) DIN 53281-83	22 MPa *(3.200 psi)*
Mean flex. strength (+25°C) DIN 53281-83	35 MPa *(5.100 psi)*
Strength E-Modul (+25°C) DIN 53281-83	2.500 - 3.000 MPa *(360 - 435 KSI)*
Shore D (+25°C) DIN 53281-83	80
Shrinkage	0,02%
Thermoforming resistance	+50°C *(+122°F)*
Colour	grey
Temperature resistance	-35 to +120°C *(-31 to +248°F)*

Preparation

The surfaces to be coated, the working tools and mixing containers must be clean (metallic-clean), dry and free of greases (WEICON Cleaner S).

Especially for smooth surfaces, the bonding strength can be improved by mechanical roughening (e.g. sandblasting).

Mixing

The components should be mixed thoroughly and bubble-free for at least 6 minutes with a mechanical mixer (spiral stirrer) at low speed (max. 500 rpm) to get a uniform mixture. Do not mix more than you are able to use within the pot life.

Application

First apply a thin layer with a spatula – use high pressure when applying the mixture. Then fill up the layer up to the requested layer thickness.

The wear resistance can be improved by planing and compressing the material layer with a roll within 2-4 hours after application. For this, the roll should be covered by a smoothing substance, e.g. WEICON Mould Release Agent or a PE foil.

After 48 hours curing at room temperature (+18°C to + 25°C/ *+64,4°F to +77°F*) WEICON WP can be machined.

Consumption

With a quantity of 12,5 kg which corresponds to a volume of 5 litres, one square metre with a layer thickness of 5 mm can be coated.

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