



pasty  
aluminium-filled  
non-corrosive and anti-magnetic

WEICON F is particularly suited for applications on components made from aluminium, aluminium alloys, magnesium and other light metals. WEICON F can be used for inexpensive repairs of all types, for filling in blowholes on light metal castings and for the

WEICON F can be used in tool construction, model and mould making, and in many other industrial applications.

### Technical data

Composition	Epoxy resin aluminiumfilled
Specific Properties	pasty
Mixing ratio by weight % (Resin/Hardener)	100:20
Pot-life at +20 °C (200 g preparation)	60 Min.
Density of the mixture	1,6 g/cm <sup>3</sup>
Viscosity of the mixture	880.000 mPa·s
Max. layer thickness per application	10 mm
Cure time mechanical loads	16 h
final hardness	24 h
Mean compressive strength (+25 °C) acc. to DIN 53281-83	61 MPa
Mean tensile strength (+25 °C) acc. to DIN 53281-83	20 MPa
Mean Flexural strength (+25 °C) acc. to DIN 53281-83	37 MPa
Mean strength E-Modul (+25 °C) acc. to DIN 53281-83	1.500 - 2.000 MPa
Shore D (+25 °C) acc. to DIN 53281-83	84
Shrinkage	0,02 %
Thermoforming resistance	60 °C
Colour	aluminium
Temperature resistance	-35 bis +120 °C

### Pretreatment of the surface

The surface to be treated or filled up must be clean (metallic clean), dry and free of grease. The same applies to the working tools and mixing vessels. To improve the adhesion, surfaces should be roughened, especially when they are smooth. WEICON Cleaner S or WEICON Sealant and Adhesive Remover help to remove almost all residues. If necessary, sand blast in addition.

Cast parts which have been exposed to sea water for a long time should be treated with special care as they might contain inorganic salts. It is possible that these salts reach the surface and absorb

moisture, thus starting rust formation (rust bubbles under the protective coating). We therefore recommend to heat or flame the surface after sand blasting. If adhesion with the ground is not desired, a separating agent must be applied. For smooth surfaces e.g. WEICON Mould Release Agent F 1000(silicone-free). For porous surfaces WEICON Mould Release Agent Wax P 500.

### Processing

Before adding the hardener, it is absolutely necessary to stir up the fillers in the resin component thoroughly (exceptions: Epoxy Resin Putty and Casting Resin MS 1000).

Thoroughly mix the components for at least 4 minutes (type SF: 2-3 minutes) to get a uniform mixture. Avoid the formation of bubbles. Do not mix more than you are able to use within the pot life. If container is partly used, it is to be kept tightly closed. Strictly observe the specified mixing ratio (tolerance max. +/- 2%).

The quoted pot life times refer to mixtures of approx. 200 g. Larger quantities will cure faster due to the typical heat reaction of epoxy resins (exothermal reaction). WEICON Plastic Metals should be used at room temperature (approx. 20 °C). Pot life and cure time will be reduced at higher temperatures. (Rule of thumb: Every increase of 10 °C above room temperature leads to a reduction of pot life and cure time by 50%). At temperatures below +16 °C, the pot life and cure time will slow down; below approx. +5 °C no reaction between resin and hardener will take place any more.\* Depending on the type, WEICON Plastic Metal can be machined or demoulded after 2 hours (min.) resp. 16 hours (max.) at room temperature. Final cure of all types is reached after 24 hours (at room temperature). Only the type Weidling C should afterwards be temper-hardened step by step. In low temperature environments the cure time can be speeded up by the influence of heat, max. +40 °C (heat lamp, hot air fan). Do not use open flame!

\* To achieve a permanently high temperature resistance, we recommend to temper-harden after 48 hours as detailed below:

Type Weidling C  
2 h at +40 °C, 2 h at +60 °C, 2 h at +80 °C, 2 h at +100 °C,  
finally 14 h at +120 °C

Types WEICON Ceramic W and WEICON TI

3 h at +50 °C, 2 h at +90 °C, 2 h at +130 °C,  
finally 1 h at +170 °C

### Storage

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 °C to +25 °C (Epoxy Resin Putty max. 3 years). Opened containers should be used within 6 months.

### Note

Any product specifications and recommendations given herein 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 warrant the continuously high quality of our products being free from defects in accordance with and subject to our General Sales Conditions. 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

#### WEICON GmbH & Co. KG (Headquarter)

Königsberger Str. 255 · DE-48157 Münster  
P.O. Box 84 60 · DE-48045 Münster  
Germany

Tel. +49 (0) 251 / 93 22-0  
Fax +49 (0) 251 / 93 22-244  
Fax +49 (0) 251 / 93 22-233 Export  
www.weicon.de · info@weicon.de

#### WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216  
Dubai · U.A.E

Phone +971 4 880 25 05  
Fax +971 4 880 25 09  
Mobile +971 50 545 99 83  
www.weicon.ae · info@weicon.ae

#### WEICON Inc.

20 Steckle Place · Unit 20  
Kitchener · Ontario · N2E 2C3  
Canada

Phone +1 519 896 5252  
Fax +1 519 896 5254  
Cell +1 519 590 5168  
www.weicon.ca · info@weicon.ca

#### WEICON Kimya Sanayi Tic. Ltd. Şti.

Yenibosna Mahallesi Yalçın Koreş Caddesi  
Arifağa Sokak No: 29 Kat: 3  
34530 Yenibosna – İstanbul Turkey  
www.weicon.biz.tr · info@weicon.biz.tr

#### WEICON Romania SRL

Str. Podului Nr.1  
547176 Budui Mic (Targu Mures)  
www.weicon.com · office@weicon.com

the only responsibility for non-appropriate or other than specified applications.

### Health and Safety

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.

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Fax +49 (0) 251 / 93 22-244  
Fax +49 (0) 251 / 93 22-233 Export  
[www.weicon.de](http://www.weicon.de) · [info@weicon.de](mailto:info@weicon.de)

#### WEICON Middle East L.L.C.

Jebel Ali Ind Area 3 · P.O. Box 118 216  
Dubai · U.A.E

Phone +971 4 880 25 05  
Fax +971 4 880 25 09  
Mobile +971 50 545 99 83  
[www.weicon.ae](http://www.weicon.ae) · [info@weicon.ae](mailto:info@weicon.ae)

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Kitchener · Ontario · N2E 2C3  
Canada

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Fax +1 519 896 5254  
Cell +1 519 590 5168  
[www.weicon.ca](http://www.weicon.ca) · [info@weicon.ca](mailto:info@weicon.ca)

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Yenibosna Mahallesi Yalçın Koreş Caddesi  
Arifağa Sokak No: 29 Kat: 3  
34530 Yenibosna – İstanbul Turkey  
[www.weicon.biz.tr](http://www.weicon.biz.tr) · [info@weicon.biz.tr](mailto:info@weicon.biz.tr)

#### WEICON Romania SRL

Str. Podului Nr:1  
547176 Budiu Mic (Targu Mures)  
[www.weicon.com](http://www.weicon.com) · [office@weicon.com](mailto:office@weicon.com)