



Plastic Metal  
**WEICON SF**

**Modified  
formulation**



Germanischer  
Lloyd



ISSA



IMPA



Modified  
formulation

Plastic Metal

# WEICON SF



## WEICON SF

**pasty - steel-filled - fast-curing  
certified by Germanischer Lloyd**

Plastic Metal SF has been listed for more than ten years in the **ISSA** (International Ship Suppliers & Services Association) and **IMPA** (International Marine Purchasing Association) catalogues and has a certificate from **Germanischer Lloyd** since 2011.

### Applications

For workshops and maintenance departments in all industries, WEICON SF is the ideal product for:

- quick repairs and bondings on leaky pipes, housings, gear boxes, tanks, bearings, shafts and cylinders
- anchoring, for example of steel anchors in concrete
- aluminium, light-alloy and injection-moulding repairs
- the fast reproduction of worn metal parts and to avoid downtimes
- templates and models of pilot series
- repairs of cracks and breaks in machine parts or casting moulds
- manufacturing of clamping devices
- repairs, touch-up work on holes and at points at which welding work is undesirable or impossible

### Materials

Plastic Metal SF can be applied on many different materials like for example:

- iron, steel, carbide and bronze
- aluminium, brass and copper
- glass, ceramics, concrete and wood
- as well as many hard plastics (except PTFE, polyethylene and polypropylene)

The use of glass fibre tape can improve the stability of the repair.



0,5 kg ✓  
10250005

2,0 kg ✓  
10250020

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### Technical Data (Modified formulation)

Basis	Steel-filled epoxy resin
Specific properties	pasty, fast-curing
Mixing ratio by weight (resin/hardener)	100:33
Pot life at +20°C (+68°F) (200 g mixing quantity)	5 minutes
Processing temperature	+5 to +40°C (+41 to +104°F)
Density of the mixture	1,7 g/cm <sup>3</sup>
Viscosity of the mixture	800.000 mPa·s
Maximum layer thickness per application	10 mm
Cure time mechanical loads	3 h
Final hardness after	6 h
Mean compressive strength at +25°C (77°F) acc. to DIN 53281-83	52 MPa (7.550 psi)
Mean tensile strength at +25°C (77°F) acc. to DIN 53281-83	15 MPa (2.180 psi)
Mean flex. strength at +25°C (77°F) acc. to DIN 53281-83	40 MPa (5.800 psi)
Strength E-Modul (+25°C/77°F) acc. to DIN 53281-83	2.500 - 4.000 MPa (360 - 580 ksi)
Shore D (+25°C/77°F) acc. to DIN 53281-83 82	82
Shrinkage	0,06%
Thermostability	40°C (+104°F)
Colour	dark grey
Temperature resistance	-35 to +90°C (-31 to +194°F)

### The improved properties at a glance:

- more pliable consistency, easier mixing
- easy visual control during mixing
- non-sagging consistency
- reduced pot life (application time)
- curing also at low ambient temperature
- lower density, 30% more volume, = higher yield
- higher flexible strength
- higher modulus of elasticity
- higher loading capacity, e. g. through improved impact resistance

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 continuous high quality of our products being free from defects in accordance with the product data sheet to our German customers. However, our 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 these. The manufacturer bears the only responsibility for non-appropriate or other than specified applications.  
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