

Repair Stick Titanium



wear resistant
titanium-filled
high temperature resistant up to +280°C (briefly up to +300°C)

It is suited for the permanent and wear resistant repair and bonding of metal parts such as tanks and pipelines, aluminium, light metal and injection moulded parts, shafts and slide bearings, pumps and housings and torn-out threads.

The WEICON Repair Stick Titanium can be used in machine and system construction, tank construction and apparatus engineering, and in many other industrial applications.

Technical Data

Base	Epoxy resin titanium-filled
Texture	pasty
Colour after curing	grey-green
Mixing ratio by volume resin/hardener	1:1
Density of the mixture	1,9 g/cm ³
Gap bridging max.	15 mm
Processing temperature	+10 to +50 °C
Curing temperature	+6 to +65 °C
Polt life for 25gr preparation and +20°C (+68°F)	30 min.
Handling strength (35% strength) after	60 min.
Capable of bearing mechanical loads (50% strength) after	240 min.
Final strength (100%) after	48 h
Pressure (DIN 53281-83)	80 N/mm ²
Medium shear strength after 7 days at +20°C (+65°F) DIN EN 1465 at	Steel sandblasted: 7,5 N/mm ²
Shore hardness D	80
Thermal conductivity (ASTM D 257)	0,5 W/m·K
Linear shrinkage	<1 %
Electrical resistivity (ASTM D 149)	5•10 ¹¹ Ohm/cm

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.

Dielectric strength (ASTM D 149)	3,0 kV/mm
Thermal expansion coefficient (ISO 11359)	30-40 x 10 ⁻⁶ K ⁻¹
Temperature resistance	-50 to +280 briefly +300 °C
ISSA-Code	75.530.06/07
IMPA-Code	812977/78

Surface pre-treatment

To ensure a perfect bond, the surfaces to be joined must be clean and dry (e.g., clean and degrease using WEICON Surface Cleaner).

Processing

WEICON Repair Sticks cover gaps of max. 15 mm per procedure. The pot life given is for a material quantity of 25 g at room temperature. If larger quantities are used, the curing time will be faster due to the typical reaction heat of epoxy resins (exothermic reaction). Similarly, higher ambient temperatures shorten the cure time (as a rule of thumb, every +10°C increase above room temperature will halve working and curing time). Temperatures below +16°C will extend working and curing times considerably, while below about +5°C, no reaction will take place at all.

Storage

When kept at a constant room temperature of about +20°C and unopened in dry conditions, WEICON Repair Sticks will keep for at least 18 months. Avoid direct sunlight.

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:

10535057 Repair Stick Titanium 57 g
10535115 Repair Stick Titanium 115 g

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