

Titanium Epoxy-Stick



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

Composition	Epoxy resin titanium-filled
Composition	pasty
Colour after curing	grey-green
Mixing ratio by volume resin/hardener	1:1
Density of the mixture	1,9 g/cm³
Gap bridging max.	15 mm
Processing temperatur	+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%) after	60 min.
Mechanical loads (50% strength) after	240 min.

Final strength (100%) after	48 h
Pressure (DIN 53281-83)	80 N/mm²
Medium shear strength after 7 days at +20°C (+65°F) DIN 532832 at	Steel sandblasted: 7,5 N/mm²
Shore hardness D	80
Thermal conductivity (ASTM D 257)	0,5 W/m.K
Linear shrinkage	<1 %
Electrical resistance (ASTM D 149)	5•10 ¹¹ Ohm/cm
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

Surface pre-treatment

To ensure a perfect bond, the surfaces to be joined must be clean and dry.

Processing

Titanium Epoxy-Stick 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, Titanium Epoxy-Stick will keep for at least 18 months. Avoid direct sunlight.

Safety and health

When using products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

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