

Repair Stick Titanium



Titanium-filled High Temperature Resistant Repair Putty

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	(+50°F) +10 to (+122°F) +50 °C
Curing temperature	(+43°F) +6 to (+149°F) +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 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
Dielectric strength (ASTM D 149)	3,0 kV/mm
Thermal expansion coefficient (ISO 11359)	30-40 x 10 ⁻⁶ K ⁻¹

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.

Temperature resistance	(-58°F) -50 to (+536°F) +280 briefly (+572°F) +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:

10535057-35	Repair Stick Titanium 57 g
10535115-35	Repair Stick Titanium 115 g

WEICON GmbH & Co. KG
(Headquarters)
Germany
phone +49 (0) 251 9322 0
info@weicon.de
www.weicon.de

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae
www.weicon.ae

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca
www.weicon.ca

WEICON Kimya Sanayi Tic. Ltd. Şti.
Turkey
phone +90 (0) 212 465 33 65
info@weicon.com.tr
www.weicon.com.tr

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com
www.weicon.com.ro

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za
www.weicon.co.za

WEICON South East Asia Pte Ltd
Singapore
phone +65 (65) 6710 7671
info@weicon.com.sg
www.weicon.com.sg

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz
www.weicon.cz

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es
www.weicon.es

WEICON Italia S.r.l.
Italy
phone (+39) 0102924871
info@weicon.it
www.weicon.it