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TITANIUM STICK

A titanium reinforced epoxy stick

What is Titanium Stick?

Titanium Stick is a two pack pre-measured, titanium reinforced, epoxy stick which has been specially formulated to bond and repair materials that are exposed to high temperatures in industrial applications.

Each stick contains pre-measured portions of base and activator. No measuring or mixing tools are needed – just cut, mix and apply.

Where can Titanium Stick be used?

Titanium Stick is suitable for use on a range of metals, but is particularly effective on iron, steel, stainless steel, titanium and ceramics.

This industrial-strength product cures tough and hard and bonds tenaciously to metals. After 8 hours of cure, Titanium Stick can be machined, tapped, drilled, ground or filed.

Titanium Stick does not adhere to polyethylene, polypropylene or PTFE.

Key Benefits and Features of Titanium Stick

- Easy to mix, use and apply.
- Suitable for repairing corrosion and mechanical wear and tear of pumps, tools, engines, castings, pipes and shaped steel work.
- Suitable for rebuilding stripped threads, blow holes, castings, moulds.
- Solventless with a low odour.
- Longer working time before full cure than traditional sticks (Copper Stick, Aqua Stick etc)
- High operating temperature.
- Excellent resistance to a range of harsh chemicals.
- Very hard finish.
- Long shelf life 2 years minimum.

Instructions for Use

Before applying, roughen and clean the area to be repaired and follow the steps below. Wear impervious gloves when mixing and handling uncured product.

1. Roughen and clean the area to be repaired.

2. Wearing impervious gloves, twist or cut off the required amount of Titanium Stick with gloved fingers, then mix by kneading to a uniform colour.

3. Apply to the repair surface within 1 hour of mixing.

4. Force into any cracks or holes to be filled and strike off any excess material before hardening begins, preferably with a tool moistened with clean water. Heating Titanium Stick or applying to warm surfaces will accelerate the cure. For a smooth cured appearance, rub with water or a damp cloth prior to hardening.

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The IM Group utilizes a process of continuous product improvement for all of our products. While the IM Group strictly adhere to our products specifications, we routinely implement product improvements. Therefore, please contact us for our most current product specifications. The IM Group warrants the quality of this product when used according to directions. Apply protective coatings per Company Standards. User shall determine suitability of product for use and assumes all risk. The seller will not accept liability for more than product replacement.



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5. After 2 hours, the epoxy will form a tenacious bond. Curing at higher temperatures (65°C/150°F) will provide a stronger bond and faster hardening; lower temperature will slow down the cure.

6. After 8 hours at room temperature, Titanium Stick can be drilled, tapped and sanded.

For best results: Use damp fingers for easier missing, application and a smooth appearance of the cured compound. Remove excess material before hardening begins.

Health and Safety

Before use, it is important that you have read the Safety Data Sheet in its entirety and the appropriate PPE is worn during use.

| | Uncured Properties | |
|---|--|------------|
| Work life @ 24°C | 1.5 – 2 hours | |
| Non-volatile content | >99% | |
| Density | 16.5 lb/gl (1.90 g/cm ³) | |
| Functional cure | 8 hours | |
| Cure time to full cure @ 21°C | 3 days | |
| Cured Mechanical Properties | | |
| Shore D Hardness | | |
| @ 24°C | 80 | ASTM D2240 |
| @ 260°C | 48 | ASTM D2240 |
| Lap shear tensile strength (steel to steel) | | |
| Cured @ 24°C for 24 hours | 2 MPa | ASTM D1002 |
| Cured @ 65°C for 24 hours | 5 MPa | ASTM D1002 |
| Compressive Strength | 8,000 psi (55 MPa) | ASTM D695 |
| Shrinkage | <1% | ASTM D2566 |
| Temperature Limits | | |
| Continuous | -40°C to +232°C | |
| Intermittent | -40°C to +260°C | |
| Chemical resistance | Resistant to hydrocarbons, ketones, esters, alcohols, halocarbons, aqueous | |
| | salt solutions and dilute acids ar | nd bases |
| | Cured Electrical Properties | |
| Electrical resistance | 30, 000 megohms-cm | ASTM D257 |
| Dielectric strength | 300 volts/mil | ASTM D149 |

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