Product Code: SFTI

TECHNICAL DATA SHEET

SUPERFAST TITANIUM

Description

Superfast Titanium Epoxy Putty Stick is a titanium-filled epoxy putty designed to bond and repair materials which will be exposed to high temperatures. It seals holes and cracks in extreme temperature pipework such as steam pipes. It can repair tanks, tools and equipment, stripped threads, blow holes, moulds, patterns, castings and duct-work. Superfast Titanium bonds to most materials including metals, ceramics, masonry, many plastics and wood.

Each handy stick contains pre-measured portions of activator and base throughout – no measuring or mixing tools are necessary. As the epoxy is mixed, the two contrasting colours blend into one colour to indicate complete mixing. The consistency eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins. Superfast Titanium cures to a golden brown, titanium-like colour. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed, or painted. It is non-rusting and will not corrode.

Suitable for interior or exterior use, it is resistant to water, chemicals, and temperature extremes. Superfast Titanium contains no solvents or VOC's. It is non-flammable and releases no noxious fumes. It will not shrink or pull away. The unused portion stays fresh for future use when saved in its original package.

Superfast Titanium has a working life of 90 minutes and can be worked in 8 hours. A full cure is achieved in 72 hours.

Technical Data

Minimum shelf life (months @ 24°C,) 24
Shore D hardness (full cure, 72 hrs)
- **at 24°C**.....80
- **at 260°C**.....48

Lap shear tensile strength (Mpa)
- **On steel (cured @ 24°C for 24hrs)**.....1.7
- **On steel (cured @ 65°C for 24hrs)**.....5.1

High temperature lap shear tensile strength (Mpa)
- **On steel (cured @ 24°C for 24hrs + 1hr @ 260°C)** ..1.7

Compressive strength (Mpa) 80
Density (gm/cm^3, lb/gal) 1.9, 16.5
Shrinkage (%).....<1
Non-volatile content (%).....100
Electrical resistance (megohms).....30,000
Dielectric strength (volts/mil) 300
Upper temperature limit
- **Continuous (°C)** .....-40 to 245
- **Intermittent (°C)**.....-40 to 280

Chemical resistance
Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.



Storage

Superfast Titanium should be stored out of direct sunlight in dry, frost free conditions of temperatures between 5°C and 24°C. Under such conditions shelf life will be 24 months from the date of manufacture.

Presentation

Superfast Titanium is supplied in a stick form wrapped in a clear release film. The stick has a nominal 22mm diameter, is 175mm in length and weighs 114g.

Health & Safety Use

Superfast Titanium consists of epoxy resins and hardener systems, which are currently classified as hazardous materials. Wear rubber or plastic coated gloves.

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy themselves that each product is fit for the purpose for which they intend to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.