

# Superfast Titanium “High Temperature”

## DESCRIPTION

Superfast Titanium-Stick is a titanium-filled epoxy putty designed to bond and repair materials that will be exposed to high temperatures for use in a variety of industrial maintenance applications. It can be used to repair tanks, iron pipes, tools and equipment, stripped threads, blow holes, moulds, patterns, castings and duct-work. It bonds to most materials, including metals, masonry, wood, ceramics and most plastics.

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-Stick cures to a golden-brown, titanium 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-Stick contains no solvents or VOC's. It's non-flammable and releases no noxious fumes. It won't shrink or pull away. The unused portion stays fresh for future use when saved in its original package. Superfast Titanium-Stick has a working life of 90 minutes and can be worked in 8 hours. Full cure is achieved in 72 hours.

## TECHNICAL DATA

MINIMUM SHELF LIFE (months @ 24°C,)	24
HARDNESS, SHORE D (full cure, 24 hrs.)	
at 20°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 TEMP LAP SHEAR TENSILE STRENGTH (MPa)	
On Steel (cured @ 24°C for 24hrs + 1hr @ 260°C)	1.7
COMPRESSIVE STRENGTH (MPa)	80
DENSITY (gm/cm <sup>3</sup> , 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

Sylmasta Superfast Titanium should be stored out of direct sunlight in dry frost free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 18 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 available in 175mm and 75mm lengths and comes supplied in a clear plastic tube.

## HEALTH & SAFETY IN 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.*