# Product Code: SFST

# TECHNICAL DATA SHEET

# SUPERFAST STEEL STICK

WRAS APPROVED MATERIAL

## Description

**Superfast Steel Epoxy Putty Stick** contains steel for hard, fast-setting repairs. This industrial-strength polymer compound sets harder than ever and will make permanent repairs to anything made of steel or other metals. It also bonds to wood, glass, masonry, and many plastics. Superfast Steel has WRAS approval, meaning it is certified as safe to use on pipes and fittings carrying drinking water.

Each stick contains pre-measured portions of activator and base – no measuring or mixing tools are necessary. As the epoxy is mixed, the two contrasting colours blend into one to indicate complete mixing. The consistency eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped before curing begins. Superfast Steel cures to a metallic dark grey. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed, or painted. It does not rust.

Suitable for interior or exterior use, it is resistant to water, chemicals, and temperature extremes. Superfast Steel 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 Steel has a work life of approximately 3 minutes. Within 5-10 minutes it will harden and form a cohesive bond. After one hour, the system can be put back into service.

Sylmasta make all Superfast Steel Sticks at their production plant in the United Kingdom, using the latest epoxy putty stick manufacturing technology. This guarantees fresh product, a reliable supply chain and reduced lead times.

## Technical Data

**Minimum shelf life (months @ 24°C,)** ..... 24
**Shore D hardness (full cure, 24 hrs.)** ..... 90
**Lap shear tensile strength (MPa)**
**On steel** ..... 6.3
**Compressive strength (MPa)** ..... 90
**Density (gm/cm$^3$)** ..... 2.1
**Shrinkage (%)** ..... <1
**Non-volatile content (%)** ..... 100
**Electrical resistance (megohms)** ..... 30,000
**Dielectric strength (volts/mil)** ..... 300
**Upper temperature limit**
**Continuous (°C)** ..... 120
**Intermittent (°C)** ..... 150
**Chemical resistance**
Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.




## Storage

Superfast Steel 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 Steel 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 Steel 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.*

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