

Steel Stick - LS86

Technical Data Sheet

Product Description

Steel Stick is a hand-mixable, non-rusting, steel-reinforced epoxy putty that quickly repairs or rebuilds anything made of steel. After mixing, it forms an industrial-strength polymer compound that can be moulded into shapes or used to build up, patch and repair steel components.

Each handy stick contains pre-measured portions of activator and base throughout — no measuring or mixing tools are necessary. The consistency (like modelling clay) eliminates drips and runs and facilitates adhesion to the substrate. After 60 minutes the application can be drilled, tapped, ground, machined, filed, and painted.

Steel Stick cures to a dark grey metallic colour. Suitable for interior or exterior use, it is resistant to water, chemicals, and temperature extremes. Steel Stick contains no VOCs or solvents. 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.

Repair...

- Leaking pipes
- Ductwork
- Cracks and voids in metal

Rebuild...

- Stripped threads
- Small machine parts
- Rust damaged metal
- The ultimate solution for small or emergency
- Saves cost of expensive repairs

Performance Data*

SHELF STABILITY AT 24°C, minimum	24 months
SHORE D HARDNESS AT FULL CURE (24 hrs)	80
LAP SHEAR TENSILE STRENGTH	
On steel (1" x 1" x 1/16")	6.2 MPa
COMPRESSIVE STRENGTH	55 MPa
DENSITY	2.2 gm/cm ³
SHRINKAGE	<1%
NON-VOLATILE CONTENT	100%
ELECTRICAL RESISTANCE	30,000 megohms
DIELECTRIC STRENGTH	300 volts/mil
UPPER TEMPERATURE LIMITS	
Continuous	121°C
Intermittent	149°C
CHEMICAL RESISTANCE	
Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	

NOT INTENDED FOR STRUCTURAL APPLICATIONS

** Not to be used for specification purposes.*

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How To Use

Before applying, roughen and clean the area to be repaired and then follow these easy steps.

1. **Cut** or twist off required amount.
2. **Mix** by kneading with fingers to a uniform colour. If mixing is difficult, warm Steel Stick to room temperature or slightly above.
3. **Apply** to surface to be repaired within 2 minutes of mixing. Force into any cracks or holes and strike off excess material, preferably with a tool moistened with clean water.
When applying to a damp, wet or slowly leaking area, work the mixed material forcefully into the surface and apply pressure until adhesion begins to take effect.

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

Curing: Steel Stick has a work life of approximately 3-5 minutes. Functional cure occurs in 60 minutes.

Health & Safety

Contains Epoxy Resin and Tri(dimethylaminomethyl)phenol.

Exposure may cause allergic reactions. May be harmful if swallowed. Get prompt medical attention if ingested. Eye irritant. If eye contact occurs, rinse with tap water for 5 to 10 minutes. If irritation persists, seek medical care. Skin irritant. Wash hands thoroughly with soap and water after use. If skin irritation occurs, seek medical attention.

KEEP OUT OF REACH OF CHILDREN.