

KNEAD IT STEEL

Description

Selleys Knead It Steel is a hand kneadable, fast setting co-extruded epoxy repair system that can be used to rebuild, reshape or repair items made of metal in minutes. It comes in a handy roll with the black hardener encapsulated in the grey resin part and turns to a dark grey colour when after mixing.

Product Information

Packaging	Size
Plastic Tube	110g

Uses

Ideal for:

- Repairing small engine parts, radiators, petrol tanks, etc.
- Sealing leaks and filling cracks & voids in iron pipes, tanks, gutters, gaskets, battery cases, tools and equipment.
- Fabricating nuts & bolts missing machine parts, etc.
- Repairing rust-damaged equipment bodies, metal gutters, downspouts and ductwork.

Features

- Adheres to metal surfaces as well as other surfaces, providing a long-lasting finish.
- Industrial strength
- Easy to use - no mess
- For use on steel, ferrous metals, aluminium, other metals, glass, concrete, timber and most plastics[#].
- Can be machined, drilled, sawed, sanded, filed, and painted when fully cured.
- Heat resistant.

Technical Details

Property	Typical Result
Technology	Epoxy
Colour	Black hardener encapsulated in the grey resin part. Dries to a dark grey colour
Density	Uncured: ~2.0g/ml Cured: ~2.2g/ml
Application Temperature	5 to 40°C

Heat Resistance	Continuous: -40 to +120°C Intermittent: -40 to +140°C
Initial Cure Time	60minutes
Full Cure Time @ 25°C	24hours
Working Time @ 25°C	3 to 5minutes
Shore D Hardness (at full cure) (ASTM D2240)	80±2
Volumetric Shrinkage	~4%
Non-Volatile Content	~100%
Lap shear tensile strength (on steel: 25 x 25 x 1.5mm (ASTM D1002))	6±0.5MPa
Compressive strength (ASTM D695)	~50MPa
Dielectric Breakdown Strength (ASTM D149)	~7500 kV/m
Chemical Resistance	Resistant to hydrocarbons, esters, ketones, alcohols, halocarbons, aqueous salt solutions, and dilute acids and bases. (For suitability, pre-test a small cured sample with dilute acid & bases).
<i>Typical properties are for information only, not for purposes of specification. The data above represents product performance in ideal laboratory conditions. Individual users' experience may vary depending on application conditions.</i>	

Surface Preparation

- Ensure surface is free of grease, dirt and dust. For best results, roughen bond area by scuffing or sanding prior to cleaning.

Directions for Use

- Wear gloves. Cut off required amount. Replace disc on remaining portion. Knead with fingers until a uniform colour is achieved. If mixing is difficult, allow the polymer to warm to room temperature.
- Apply to surface to be repaired (within 2 minutes of mixing); apply pressure to force the adhesive into surface or mould to required shape.
- For a smooth appearance, remove excess adhesive and hand rub with water or a damp cloth before hardening begins.

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- In ~5 to 10minutes, Knead It Steel will harden and begin to form a strong bond.
- Knead It Steel may be drilled, sanded, machined, filed, sawed or painted after 60 minutes.

Safety Tips

- Wear impermeable gloves when mixing or handling uncured product.
- Wash hands thoroughly with soap and water immediately after handling before product hardens.
- Avoid breathing dust and use a dust mask when sanding.
- Turn off power when doing repairs with electrical items.

Clean Up

- Clean up with damp cloth before adhesive hardens.

Storage

- Store in a cool, dry, well-ventilated place and out of direct sunlight.
- Store away from foodstuffs.

Limitations

- Set time increases at temperatures below 20°C.
- #Does not adhere to Polyethylene, Polypropylene or Teflon® (Polytetrafluoroethylene).
- Not recommended for filling joints and cracks subject to movement as the cured product is extremely hard and not flexible.
- Not intended for use in structural applications.

Warnings, First Aid and Shipping Information

This information can be located on the product SDS available on Selleys website: www.selleys.com