



KNEAD-IT STEEL

DESCRIPTION

KNEAD-IT STEEL is a hand kneadable, fast setting, non-rusting co-extruded epoxy repair system that can be used for repairing ferrous and aluminium metal items. It comes in a handy roll form, with the black hardener encapsulated in the grey resin part. The product hardens in 10-15 minutes, after mixing, to a black metal-like material.

SIZES AVAILABLE

Available in a 50g roll.

USES

For fast and permanent repairs to items made of ferrous and aluminium metals.

- Repair of iron pipes, tools and equipment.
- Repair stripped threads.
- Forming of nuts and bolts in place.
- Attaching fixtures and signs.
- Making prototypes.
- Thread locking.
- Repair of down pipes and gutters.
- Repairs to duct work.
- Anchoring of bolts.

TECHNICAL FEATURES

- Will not sag, run or drip.
- Easy to use - no mess.
- For use on ferrous and aluminium metal substrates.
- Can be drilled, sawed, sanded, filed, tapped,machined or painted one hour after mixing.
- Good adhesive strength.
- Good gap filling properties.
- Heat resistant to 120°C.

LIMITATIONS

- Not suitable for plastic substrates.
- Set time increases at temperatures below 20°C.
- Use **KNEAD-IT UNDERWATER** for applications in contact with drinking water.

TECHTECHNICAL DETAILS

WORKING LIFE (minutes).....	3-5
NON-VOLATILE CONTENT (%).....	100
SHRINKAGE (%).....	<1
HARDNESS, SHORE D (after 24 hrs @ 25 ^o C)...	80
LAP SHEAR TENSILE STRENGTH (kPa) (25mm x 25mm x 1mm, steel)	4000-6000
COMPRESSIVE STRENGTH (kPa, 24hrs cure @ 25 ^o C)	80,000
ELECTRICAL RESISTANCE (megohms)	30,000 (ASTM D257)
DIELECTRIC STRENGTH (Volts/mm)	11800 (ASTM D149)
UPPER TEMPERATURE LIMIT Continuous (°C).....	120
Intermittent (°C)	140
CHEMICAL RESISTANCE: Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	
SHELF STABILITY	18 months

HOW TO USE

- 1 Clean surface free of grease, dirt and dust. For best results roughen bond area prior to cleaning.
- 2 Cut off required amount. Replace disc on remaining portion. To mix, knead with fingers to uniform colour. If mixing is difficult, warm to room temperature. Use gloves to avoid messing hands.
- 3 Apply with pressure to surface to be repaired (within 2 minutes of mixing) and mould to shape if required. If material sticks to fingers, use the plastic wrapper to press the material in place.
- 4 For a smooth appearance, remove excess and hand rub with water or a damp cloth before hardening begins.
- 5 After 5-10 minutes **KNEAD-IT STEEL** will harden and begin to form a strong bond.
- 6 After 60 minutes **KNEAD-IT STEEL** may be drilled, sanded, machined, filed, sawed or painted.
- 7 Wash hands thoroughly with soap and water after use.

WARNINGS/FIRST AID

Where possible wear protective gloves when using **KNEAD-IT STEEL**. Contact with skin may result in irritation. Epoxy resin is a known skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

If redness or swelling of skin occurs, wash thoroughly with soap and water. Seek medical attention if in any doubt.

Mixed and cured material is not hazardous. Cured material can only be removed by cutting and abrasion. If cured on skin, it will peel off in a few days without assistance. Soaking in warm water will assist removal.

SHIPPING/STORAGE/DANGEROUS GOODS INFORMATION

Dangerous Goods Classification: Not restricted

Store in a cool place for maximum shelf life.

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