

Technical Data Sheet

Knead-It Multipurpose

Update

2014

DESCRIPTION

KNEAD-IT MULTIPURPOSE is a hand kneadable, fast setting, co-extruded epoxy repair system that can be used to rebuild, reshape, or repair a multitude of things. It comes in a handy roll form, with the grey hardener encapsulated in the off-white resin part, and it hardens in 5-10 minutes, after mixing.

SIZE AVAILABLE

Available in a 50g roll.

USES

- Repair and replacement - timber, metal, masonry, many plastics, ceramics.
- Mending - toys, appliances, lawn mowers, sports equipment etc.
- Sealing - leaks in gutters and downpipes.
- Patching - chipped concrete, floors, bricks, blocks etc.
- Attaching - fixtures, machine tags, signs etc.
- Anchoring - bolts, screws, housings etc.
- Moulding - to reform-reshape damaged timber, metal, masonry, plastics, ceramics.
- Balancing - table legs etc.

TECHNICAL FEATURES

- Will not sag, run or drip.
- Easy to use - no mess.
- Reshapes, rebuilds, repairs many surfaces.
- Can be used on metal, timber, concrete, ceramics, any plastics, glass.
- 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.
- Can be used under water.

LIMITATIONS

- Suitable for contact with drinking water. Complies with AS/NZS 4020, QAS Type Test Certificate No. 8649.
- Not recommended for filling or sealing joints/cracks subject to movement as the cured product is extremely hard and inflexible.
- Does not adhere to polyethylene, polypropylene or Polytetrafluoroethylene (Teflon®).
- Pot life (working life) decreases above 20 °C.
- Set time increases at temperatures below 20 °C.
- Drinking water contact approval subject to maximum surface area: volume ratio of 1024 mm²/L; minimum cure time: 72 hours at 20 °C; maximum temperature: 85 °C; maximum wet film thickness: 5-6mm.

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TECHNICAL DETAILS

Shelf Life	18 months
Working Life	3-5 minutes
Curing time (typical @ 25C)	10mins - initial hardening 60mins - can be sanded, drilled, machined, filed, sawed or painted
Shore D Hardness	70-80 (after 24 hrs cure @25°C).
Lap Shear Tensile Strength	4,500–6,000kPa (25x25x1mm, steel)
Compressive Strength	Min. 80,000kPa (after 24hrs cure @25°C)
Chemical Resistance	Resistant to hydro-carbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.
Electrical Resistance	30,000 megohms (ASTM D257)
Dielectric Strength	11,800 volts/mil. (ASTM D149)
Shrinkage	< 1%
Non Volatile Content	100%
Upper Temperature limit	Continuous - 120°C Intermittent - 140°C

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 a uniform colour. If mixing is difficult, warm to room temperature. Use gloves to avoid messing hands. *See Warnings/First Aid (below)
3. Apply to surface to be repaired (within 2 minutes of mixing) and mould to shape if required.

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 MULTI PURPOSE** will harden and begin to form a strong bond.
6. After 60 minutes **KNEAD-IT MULTI PURPOSE** may be drilled, sanded, machined, filed, sawed or painted.
7. Wash hands thoroughly with soap and water before product hardens.

WARNINGS/FIRST AID

Where possible wear protective gloves when using

KNEAD-IT MULTI PURPOSE. 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.