

KNEAD IT MULTIPURPOSE

Epoxy Repair System

TECHNICAL DATA SHEET

Description

Selleys® Knead It Multipurpose is a fast-setting, hand-kneadable epoxy repair compound for rebuilding, reshaping or repairing various objects around the house and workshop. Supplied as a roll with grey-beige hardener encapsulated in white resin that cures to a grey finish after mixing. It can be moulded to the desired shape and adheres to most substrates, providing a permanent finish. Once cured, it can be drilled, sawed, sanded and painted.

Features

- Easy to use - no mess
- Non-sag, run and drip
- Heat Resistant up to 120 °C
- Excellent anchoring properties
- Can be used under fresh or salt water
- Adheres to most substrates
- Can be machined, drilled, sawed, sanded, filed, and painted once cured.

Usages

- Suitable for:
- Repairing or replacing broken timber, metal, masonry, plastic, or ceramic parts.
 - Sealing leaks in gutters and downpipes
 - Attaching fixtures and machine tags
 - Moulding to reform or reshape damaged timber, metal, masonry, plastic, or ceramic components
 - Mending toys, appliances, lawn mowers, and sports equipment
 - Patching chipped concrete, floors, bricks, and blocks
 - Anchoring bolts, screws, and housings
 - Patching dings, scratches, cuts, gouges and holes on fibreglass, metal, wooden boat decks and hulls.
 - Filling rust holes and small dents
 - Balancing - table legs, etc.

Product and Technical Information

Product Data		Technical Performance	
Technology	Epoxy + Hardener	Working Time @ 25 °C	5 - 10 minutes
Cure Mechanism	Chemical curing	Initial Cure	60 minutes
Specific Gravity (A+B)	Approx. 2.0	Full Cure	24 hours
Shore D Hardness ¹	73	Lap Shear Strength ²	4.5 MPa
Non-Volatile Content	100%	Compressive Strength	45.9 - 82.7 MPa
Colour (Part A)	White	Dielectric Strength	300 V/mil
Colour (Part B)	Grey-beige	Electrical Resistance	30,000 MΩ
Colour (A+B)	Grey	Application Temperature	+5 °C to +40 °C
Shelf life	24 months	Service Temperature	-40 °C to +120 °C
		Storage Temperature	+5 °C to +25 °C

The table results are based on current product material data, quality test methods, and testing conditions, such as temperature, moisture, and substrate.

Substrate

Porous

- Masonry
- Timber

Non-porous

- Metal
- Glass
- Fibreglass / Plastic³

EXCEPTION

- ³Not for use on polyethylene, polypropylene or PTFE (Teflon®).
- Pre-test compatibility with substrates before use.

Method of Applications**Surface**

- Ensure all surfaces to be bonded are clean, sound, and free of dust, oil, rust, and other contaminants.
- Surface abrasion can improve bond strength for substrates such as composite materials, plastics and metals. Remove all existing adhesives or sealants before use on remedial work.

Packaging

- Remove the cap from the container and take out the compound.
- Remove the disc and cut off the required amount.
- Replace the disc and return the remaining compound to storage.

Application

- Wear gloves when handling the product.
- Knead the material by hand until the colour is uniform.
- If mixing is difficult, let the material reach room temperature.
- Mix the compound above water, then apply underwater.
- Apply the compound to the surface within 3 - 5 minutes after mixing.
- Press the compound into the surface until adhesion starts.
- Shape as needed. Use a clean plastic wrapper to assist application and press firmly into place.
- For a smooth finish, remove excess compound and wipe the surface with clean water or a damp cloth before hardening. Knead It Multipurpose will harden in 60 minutes and form a strong bond. Allow extra curing time if the temperature is below 20°C.
- After 60 minutes, Knead It Multipurpose can be drilled, sanded, machined, filed, sawed, and painted.

Chemical Resistance

- Resistant to water, hydrocarbons, aqueous salt solutions, and dilute acids and bases.
- Prolonged exposure to some organic solvents (esters, ketones, alcohols, halogenated solvents) may affect performance.
- For suitability, pre-test a small, cured sample

Cleaning

- Excess compound on tools and equipment can be removed with damp cloth before curing.
- Cured compound can be removed mechanically.

Limitations

- Do not apply if the ambient or substrate surface temperature is below +5 °C or above +40 °C. Optimal application temperature is between +5 °C and +25 °C.
- Do not use for applications exceeding the temperature requirements above +120 °C continuously.
- At low temperatures, curing speed slows.
- 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.
- Selleys® recommends users conduct their own risk assessment before use to determine the product's suitability. A sample should be applied to the intended area to ensure acceptable appearance, finish, and performance on the substrate.

Storage

- Store unopened packaging in a cool, dry place and away from direct sunlight.
- Avoid freezing the product.
- Unopened packaging is best used within 24 months from the date of manufacture.

Packaging

Size	Available colour	Item Code
Plastic tube - 110 g	Part A - White	
Blister - 50 g	Part B - Grey-beige	

Health and Safety

This information is available in the product Safety Data Sheet (SDS) on our website at www.selleys.com.au. Refer to the product label for full conditions.

Notes

¹Shore D Hardness: tested according to ASTM D2240

²Single lap shear strength: tested according to ASTM D1002 (on steel: 25 x 25 x 1.5mm)

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