KNEAD IT AQUA
Epoxy Repair System

TECHNICAL DATA SHEET

Description

Selleys® Knead It Aqua is a fast-setting, hand-kneadable epoxy repair compound for rebuilding, reshaping or repairing substrates below waterline. Supplied as a roll with white hardener encapsulated in aqua-green resin that cures to an off-white finish after mixing. Once cured, it can be drilled, screwed, filed, carved, sanded or painted, and will not shrink or pull away. It resists water, temperature extremes and a range of chemicals.

Features

- Easy to use - no mess
- Non-sag, non-run, and non-drip.
- Heat-resistant up to 120 °C
- Good gap-filling properties
- Adheres to most substrates
- Can be applied on damp, wet and underwater surfaces
- Can be used for fresh or salt water
- Can be machined, drilled, sawed, sanded, filed, and painted once cured.

Usages

Suitable for:

- Fast and permanent repairs to damp, wet substrates, and for underwater repairs.
- Repair fittings, electrical connections, water tanks, tubs, sinks, spas, hot tubs, tanks, pools, PVC pipes and leaking gaskets.
- Patching dings, scratches, cuts, gouges and holes on fibreglass, metal, wooden boat decks and hulls.
- Forming custom gaskets, etc.
- Emergency in-water repairs.

Product and Technical Information

Product Data		Technical Performance	
Technology	Epoxy + Hardener	**Working Time @ 25 °C**	10 – 20 minutes
Cure Mechanism	Chemical curing	**Initial Cure**	60 minutes
Specific Gravity (A+B)	Approx. 1.9	**Full Cure**	24 hours
Shore D Hardness[1]	80	**Lap Shear Strength[2]**	5.0 MPa
Non-Volatile Content	100%	**Compressive Strength**	45.9 – 82.7 MPa
Colour (Part A)	Green	**Dielectric Strength**	300 V/mil
Colour (Part B)	White	**Electrical Resistance**	30,000 MΩ
Colour (A+B)	Off-white	**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
- Concrete
- Timber

Non-porous

- Metal
- Glass / ceramic
- Fibreglass / Plastics[3]

EXCEPTION

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

15 Gow Street, Padstow NSW 2211, Australia ● Tel: 1300 555 205 (AUS); 0800 735 539 (NZ) ● Email: support.selleysaus@selleys.com

Method of Application

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 material, 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 10 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 Aqua 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 Aqua can be drilled, sanded, machined, filed, sawed, and painted.

Chemical Resistance

- Resistant to water, hydrocarbons, aqueous salt solution, 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 Blister – 50 g	**Part A – Aqua green Part B - White**	

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

[1]Shore D Hardness: tested according to ASTM D2240
[2]Single lap shear strength: tested according to ASTM D1002 (on steel: 25 x 25 x 1.5mm)

Disclaimers

All information contained in this Product Information Sheet is provided on a good faith basis and is as accurate and up to date as possible on the date of issue. Products can be expected to perform as indicated in this Sheet, provided all application procedures are followed without exception. Notwithstanding the above, any recommendations made by **Selleys** or its distributors in relation to this or other products are to be taken as general advice only. **Selleys** makes no representations or warranties that this product will be suitable for any particular use or purpose. Subject to any applicable legislation which cannot be excluded (such as the Australian Consumer Law), **Selleys** accepts no responsibility and will not be held liable for any failure in performance of this product or any losses, damages, or injuries (consequential or otherwise) arising from the storage, mixing, application or other use of this product or for any representations made by third parties about the product which have not been approved in writing by **Selleys**. Users of this product accept all risks and responsibilities for its use. **Selleys** recommends users undertake their own risk assessment before use, and it is the user's sole responsibility to determine the suitability of the product for any intended use. Differences in materials, substrates, environments, site conditions, and product storage, handling, and application may affect results. It is essential that a sample of the product be applied to the intended use area to ensure it is acceptable in appearance and finish, and that it provides the desired performance. For technical support, please get in touch with a Selleys representative. This Product Information Sheet is copyright to **DuluxGroup** (Australia) Pty Ltd and/or D**uluxGroup** (New Zealand) Pty Ltd (collectively).