

KNEAD IT AQUA

Description

Selleys Knead It Aqua is a hand kneadable, fast setting co-extruded epoxy repair system that can be used to rebuild, reshape or repair damp, wet or underwater substrates. It comes in a handy roll with the white hardener encapsulated in the aqua green resin and turns to an off-white colour after mixing. Once fully cured, it can be machined, drilled, sawed, filed and painted.

Product Information

Packaging	Size
Plastic Tube	110g
Blister	50g

Uses

Suitable for:

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

Features

- Will not sag, run or drip
- Easy to use - no mess
- Adheres to most substrates e.g. glass, ceramics, masonry, metal, timber, fibreglass and some plastics#.
- Can be machined, drilled, sawed, sanded, filed, and painted one hour after mixing.
- Good gap filling properties.
- Heat resistant.
- Can be used under fresh or salt water.

Technical Details

Property	Typical Result
Technology	Epoxy
Colour	White hardener encapsulated in aqua green resin part. Dries to a white colour.

Density	Uncured: ~1.8g/ml Cured: ~1.9g/ml
Application Temperature	5 to 40°C
Initial Cure Time	60minutes
Full Cure Time	24hours
Working Time	20 - 30minutes
Shore D Hardness (at full cure) (ASTM D2240)	70±2
Heat Resistance	Continuous: -40 to +120°C Intermittent: -40 to +140°C
Volumetric Shrinkage	~3%
Non-Volatile Content	~100%
Lap shear tensile strength (on steel: 25 x 25 x 1.5mm (ASTM D1002))	6.5 - 7MPa
Compressive strength	~19MPa
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. <i>(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.	

Standards

- Approved for contact with drinkable water at temperatures up to 85°C.
- Complies with AS/NZS4020*
*Maximum Surface Area to Volume ratio is ~1000mm²/ L @ 85C.

Surface Preparation

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

Directions for Use

- Wear glove. Cut off required amount. Replace disc on remaining portion. Knead with fingers until a

KNEAD IT AQUA

uniform colour is achieved. If mixing is difficult, warm to room temperature.

- For underwater applications, mix adhesive above the waterline prior to immersion.
- Apply to surface to be repaired (within 10 minutes of mixing) and work the adhesive forcefully into the surface applying pressure until adhesion begins to take effect.
- Mould to shape if required. Use the plastic wrapper to press the material in place.
- For a smooth appearance, remove any excess adhesive and hand rub with water or a damp cloth before hardening begins. Knead It Aqua will harden after 20-30 minutes and begin to form a strong bond. Allow for longer cure times at temperatures below 20°C.
- After 60 minutes Knead It Aqua can be drilled, sanded, machined, filed, sawed and painted.

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 equipment.

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.

Warnings, First Aid and Shipping Information

This information can be located on the product SDS found through our website – www.selleys.com