

ARALDITE® ULTIMATE BOND

2-Component Epoxy Adhesive

TECHNICAL DATA SHEET

Description

Selleys® Araldite® Ultimate Bond is a 2-part epoxy adhesive made with 20% bio-based carbon material, providing a durable bond to a wide range of surfaces. Packed in an easy-to-use dual-cartridge syringe for precise dispensing and dosing of adhesive and resin at a 2-in-1 ratio, ready for mixing.

Features

- Tug and snap proof after full cure
- Very strong with ultimate bond strength that holds up to 200kg/cm² +
- Fast setting in 5 minutes
- Adheres to a wide variety of substrates
- Easy adhesive dispensing packaging
- Durable and long-lasting
- Low odour

Usages

- Bonding and fixing similar or dissimilar substrates
- Bonding and fixing non-porous substrates that do not require moisture
- Bonding parts and general assembly
- Bonding materials for arts and crafts

Product and Technical Information

Product Data		Technical Performance	
Technology	2-component epoxy	Open Time	3-4 minutes
Cure Mechanism	Chemical curing	Full Cure	72 hours @ 23 °C
Specific Gravity (A+B)	1.2	Tensile Strength	8-12 MPa
Mixing Ratio	2:1	Lap Shear Strength ⁺	16-20 MPa
Colour (Part A)	White	Peel Strength ⁺	5-7 N/mm
Colour (Part B)	Black	Application Temperature	+5 °C to +40 °C
Colour (A+B)	Grey	Service Temperature	-20 °C to +60 °C
		Storage Temperature	+5 °C to +25 °C
		Shelf life	24 months

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

Substrate

Porous

- Wood
- Leather
- Stone

Non-porous

- Metal
- Stainless Steel +
- Glass / China
- Plastic

EXCEPTION

- Not 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.
- Clean non-porous surfaces with a clean cloth dampened with IPA or white spirit, wiping in one direction only, then immediately followed by wiping with a clean, dry cloth.

- 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

- Snap out the cap from the plunger and carefully cut the sealed tips at the end of the container nozzle.
- Apply even pressure to the plunger to dispense parts A and B onto a clean disposable container.
- Mix parts A and B thoroughly with a spatula until a homogeneous colour appears.
- Only mix parts A and B that can be consumed for up to 4 minutes. Discard any excess mixed glue that has exceeded its open time.

Application

- Apply mixed glue to both surfaces to bond, then bring them together.
- Hold in place with tapes or a weight to provide temporary support. Do not disturb the bond for at least 60 minutes. Allow the adhesive to cure completely before applying any load.

Cleaning

- Excess adhesive on tools and equipment can be removed with an all-purpose thinner.
- Cured adhesive can be removed mechanically or by applying heat.

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 +60 °C. Bond can weaken when the temperature exceeds +60 °C. Strength recovers to optimal once the temperature decreases.
- At low temperatures, curing speed slows.
- **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 below 27 °C in a cool, dry place away from direct sunlight.
- Avoid freezing the product.
- Long-term exposure to elevated temperature can decrease material mechanical performance.
- Unopened packaging is best used within 24 months from the date of manufacture.

Packaging

Size	Available colour	Item Code
30 mL	Part A - White Part B - Black	104058

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.

Disclaimers

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