

## DIY Adhesives

**Araldite® Repair Aqua**  
Epoxy resin putty**Other commercial names****Key properties**

- Gap filling putty
- Cures underwater
- High stiffness
- Colour coded for easy mixing

**Description**

Araldite® Repair Aqua is a tough epoxy putty used to provide permanent repairs in damp, wet or underwater conditions. It may be applied underwater, and it will bond tenaciously to substances such as fibreglass, metal, wood, concrete and ceramics.

Araldite® Repair Aqua is a hand kneadable epoxy putty supplied as a two-part concentric stick. The cured material can be drilled, sawn, filed or sanded and painted.

**Product data**

Property	Resin	Hardener	Mixed
Appearance	Green	White	White
Specific gravity at 25°C	-	-	1.96 – 2.02
Working life at 23°C	-	-	15 minutes

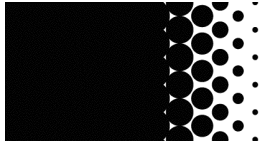
**Note:** The two parts are supplied as extruded sticks.

**Processing****Pretreatment**

The strength and durability of a bonded joint are dependent on proper pre-treatment of the surfaces to be bonded. At the very least, joint surfaces should be cleaned with a good degreasing agent such as acetone, isopropanol or proprietary degreasing agent in order to remove all traces of oil, grease and dirt. Low grade alcohol, gasoline (petrol) or paint thinners should never be used. The strongest and most durable joints are obtained by mechanically abrading. Abrading should be followed by a second degreasing treatment.

**Mix ratio**

The correct mix ratio is obtained by cutting a length off the combined roll of material.

**Mixing**

Wear suitable gloves.

Mix resin and hardener by rolling or kneading until the mixture is a uniform colour.

**Application**

Apply the putty with the fingers or with a roller or stiff knife. Smooth off while still tacky. A simple method to produce a gloss finish is to press a polyethylene sheet into the tacky surface, allow the putty to cure, and then to peel off the sheet.

**Curing time**

20-30 minutes at 25 °C

Hardening time

60 minutes at 25 °C

The material can be drilled or sawn.

24 hours. 25 °C

Full cure

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**Typical cured properties**

The figures below were determined with typical production batches using standard testing methods. They are provided solely as technical information and do not constitute a product specification.

**Shore hardness** D 65

**Lap shear strength on steel**  
at 23 °C 6.2 MPa

**Compressive strength**  
at 23 °C 75 MPa

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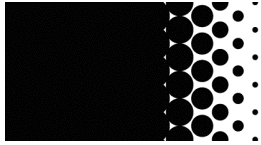
**Storage**

The extruded sticks of Araldite® Repair Aqua should be stored in a dry place at 5 – 25 °C. In these conditions the resin and hardener have an assigned shelf life of 2 years.

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**Handling precautions****Caution**

Our products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. These precautions are described in greater detail in the Material Safety Data sheets for the individual products and should be referred to for fuller information.



# Araldite®

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