

DIY Adhesives

**Araldite® Rapid**

Two component fast cure epoxy adhesive

**Other commercial names**

- Araldite® Rapide
- Araldite® Rapido

**Key properties**

- Fast curing
- General purpose
- Low shrinkage
- Bonds a wide variety of materials
- Tough and resilient

**Description**

Araldite® Rapid is a fast cure, multipurpose, two component, room temperature curing adhesive of high strength and toughness.

It is suitable for bonding a wide variety of metals, ceramics, glass, rubbers, rigid plastics, and most other materials in common use. It is a versatile adhesive for the craftsman as well as most industrial applications.

**Product data**

Property	Araldite® Rapid Resin	Araldite® Rapid Hardener	Araldite® Rapid mixed
Colour (visual)	opaque	pale yellow	pale yellow
Specific gravity	1.16-1.18	1.15-1.18	ca 1.18
Viscosity at 25°C (Pas)	30-75	20-40	typically 25-50
Pot Life (100 g at 25°C)	-	-	5 - 8 minutes

**Processing**

**Pretreatment**

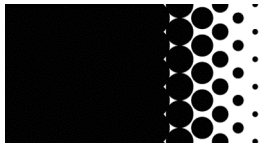
The strength and durability of a bonded joint are dependant on proper treatment of the surfaces to be bonded.

At the very least, joint surfaces should be cleaned with a good degreasing agent such as acetone, iso-propanol for plastics) 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 either mechanically abrading or chemically etching ("pickling") the degreased surfaces. Abrading should be followed by a second degreasing treatment.

Mix ratio	Parts by weight	Parts by volume
Araldite® Rapid Resin	100	100
Araldite® Rapid Hardener	100	100



### Application of adhesive

The resin/hardener mix is applied directly or with a spatula to the pretreated and dry joint surfaces.

A layer of adhesive 0.05 to 0.10 mm thick will normally impart the greatest lap shear strength to the joint. Huntsman stresses that proper adhesive joint design is also critical for a durable bond. The joint components should be assembled and secured in a fix position as soon as the adhesive has been applied.

### Equipment maintenance

All tools should be cleaned with hot water and soap before adhesives residues have had time to cure. The removal of cured residues is a difficult and time-consuming operation.

If solvents such as acetone are used for cleaning, operatives should take the appropriate precautions and, in addition, avoid skin and eye contact.

### Times to minimum shear strength

Temperature	°C	23
Cure time to reach	hours	
LSS > 1MPa	minutes	30
Cure time to reach	hours	4
LSS > 10MPa	minutes	

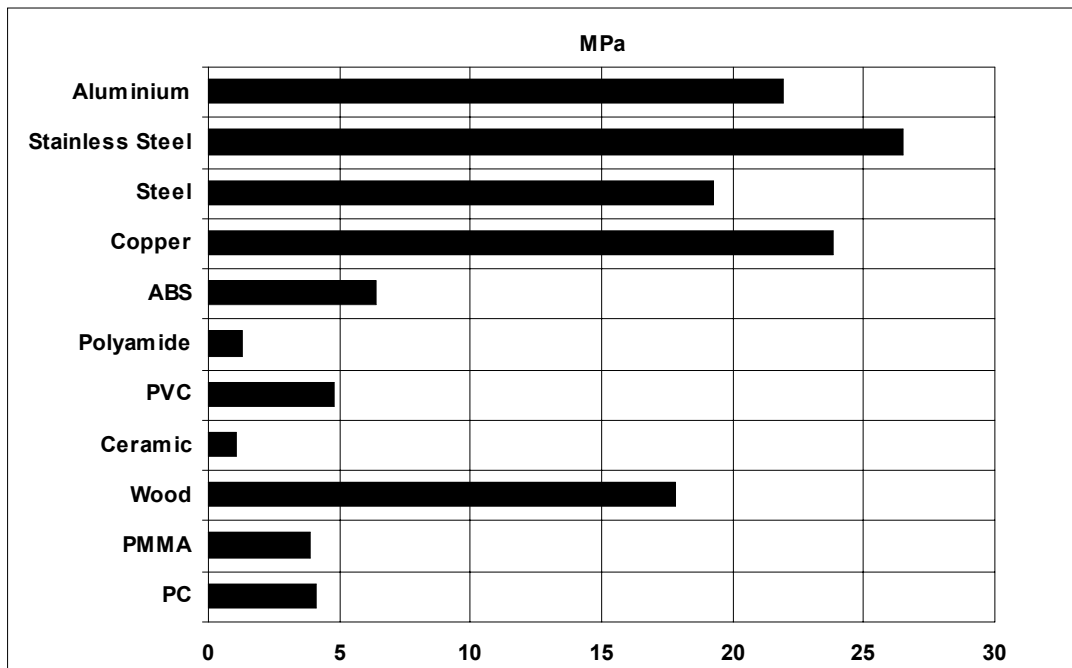
LSS = Lap shear strength.

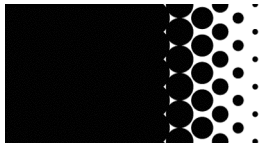
## Typical cured properties

### Average lap shear strengths of typical joints (ISO 4587)

Cured for 16 hours at 40°C and tested at 23°C.

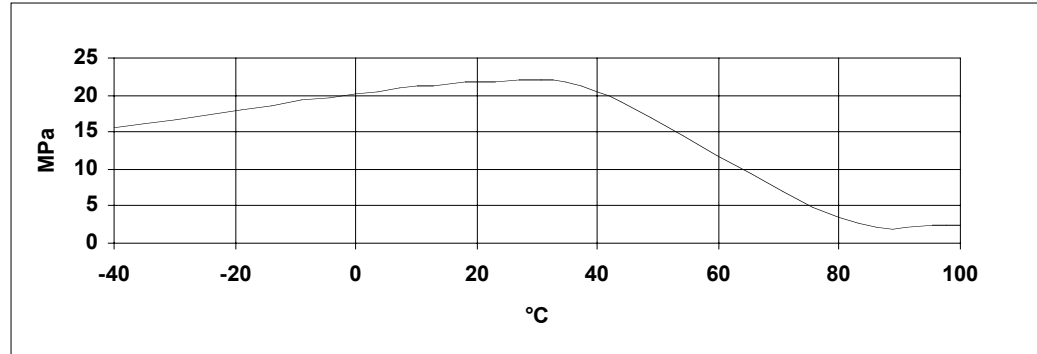
Pre-treatment: plastics abraded and degreased, metals sandblasted and degreased.





## Lap shear strength versus temperature (ISO 4587) (typical average values)

Carried out on sandblasted and degreased aluminium, cure 16 hours at 40°C



### Storage

Araldite® Rapid may be stored for up to 2 years at room temperature provided the components are stored in sealed containers.

### 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 cleaned 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.

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