

DIY Adhesives

Araldite

Araldite[®] Standard Two component epoxy adhesive

Other	Araldite [®] Progressive									
commercial	Araldite [®] Precision									
names	Araldite [®] Extra Strong									
Key properties	Multi purpose Long working life Low shrinkage Good resistance to dynamic leading									
						Good resistance to dynamic loading				
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						Description	Bonds a wide variety of m Araldite [®] Standard is a multiple	urpose, two component, roon		
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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 [®] Standard Resin	100	100
Araldite [®] Standard Hardener	80	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	7.5
LSS > 1MPa	minutes	
Cure time to reach	hours	14
LSS > 10MPa	minutes	

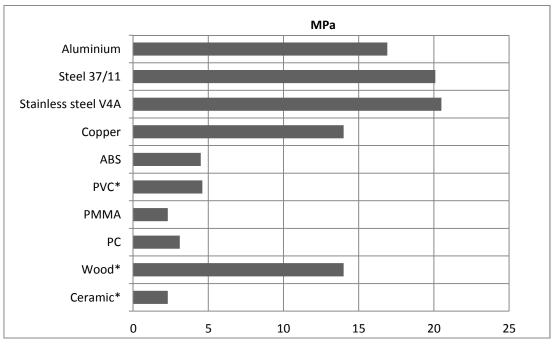
LSS = Lap shear strength.

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.



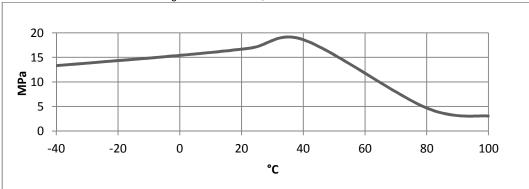
*: substrate's failure





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[®] Standard may be stored for up to 3 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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