

Bostik

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Information Sheet No. B1329/2

ARALDITE® EPOXIES FOR CONSUMER USE

DESCRIPTION:

ARALDITE® epoxies for Consumer use are solvent free, room temperature curing, high strength adhesives supplied in two part form. They are manufactured by CIBA Specialty Chemicals, world leaders in epoxy resin adhesives. Three products are specially made for DIY applications:

Precision - a tough adhesive with a long pot life for precision positioning

Rapid - a powerful adhesive with a fast setting time for rapid bonding

Instant Clear - a strong, ultra fast adhesive which is clear and colourless

MATERIALS BONDED/APPLICATIONS:

ARALDITE® epoxies for Consumer use will bond a variety of materials around the home including metal, wood, ceramics, masonry, glass, dry concrete, chipboard, leather, cardboard and most hard plastics, fabrics and rubbers.

IMPORTANT: **ARALDITE®** epoxies are not suitable for bonding rear-view mirrors to car windscreens. Do not use for items which may contain food or drink, as the joint however secure and clean it may appear, may entrap bacteria from the environment. Not intended for repairs on safety critical items e.g. rotating parts of hover mowers. Please note that some items are moulded from polymers such as polythene or polypropylene, for example, and are simply not designed for repair. Repair may not be viable or would need specialist chemical treatment to achieve a bond.

BONDING INSTRUCTIONS:

1. Make sure surfaces are dry, clean and free from dust, dirt and grease. For even better bonding slightly roughen surfaces with sandpaper.
2. Following the instructions on the back of the blister card, dispense equal volumes of resin and hardener onto a clean disposable surface. Stir well for 15 seconds with the plastic palette knife provided, ensuring a thorough mix. Reseal the syringe/tubes of resin and hardener as directed on the blister card as soon as possible.
3. Apply the mixed adhesive to both surfaces of the joint and assemble carefully. If using **ARALDITE®** Instant Clear the joint must be assembled immediately.

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ARALDITE® EPOXIES FOR CONSUMER USE - Continued 2)

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The Company cannot accept any responsibility for loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm the suitability of this product by their own tests.

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4. Keep the joint supported until set. A rubber band or sticky tape is ideal for ARALDITE® Precision and Rapid. ARALDITE® Instant Clear sets very rapidly so hold the joint together until bonded. An approximate guide to support and handling times at room temperature is given below.

<u>Adhesive</u>	<u>Support Time</u> <u>at Room Temperature</u>	<u>Handling Time</u> <u>At Room Temperature</u>
Precision	at least 6 hours (or 4 hours at 40°C)	at least 16 hours
Rapid:	about 10 minutes	about one hour
Instant Clear:	about 1½ minutes	about 10-15 minutes

The times given above are for guidance only and are dependant on temperature. Setting times may be shorter in hot weather and depend on the quantity mixed. In cold conditions the rate of curing of the mixed adhesive may be slowed down significantly and weak joints may result. For best results use between 20°C to 25°C.

5. For a perfect finish carefully remove any excess adhesive with a sharp knife before the adhesive has fully hardened.

CLEANING:

Uncured resin/hardener mixtures can be cleaned from tools using cellulose thinners or acetone. Solvents must always be handled with due care as they may be hazardous or flammable. Methoxypropanol is an alternative solvent which significantly reduces the flammability hazard. Please note that solvents may attack some rubbers, plastics, painted surfaces, fabrics, etc.. Bear this in mind if intending to use solvent to remove excess adhesive, and carry out a preliminary test first.

Cured adhesive residues can usually be dissolved from tools by soaking in commercial paint stripper. Refer to the paint stripper manufacturer's instructions for use and safe handling.

The adhesive may be removed from the skin using a suitable proprietary hand cleaner. Contact with the skin should however be avoided. Do not use solvents in contact with the skin. Always open and use adhesive products over a protected surface, and avoid contact with clothing.

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TYPICAL ADHESIVE CHARACTERISTICS:

	<u>Resin</u>	<u>Hardener</u>
Physical form:	Liquid	Liquid
Chemical type:	Epoxy resin	Dependent on product (Refer to pack or Material Safety Data sheet)
Solids content:	100%	100%
Colour:	<u>Mixed</u> Pale yellow except Instant Clear (colourless)	
S.G:	1.1 - 1.2 according to grade	
Setting Time*:	Precision Rapid Instant Clear	About 2 hours for 100 g About 4 minutes for 5 g About 90 seconds for 2 g

* Typical Pot life at 20-25°C. Pot life will vary according to ambient temperature, temperatures of resin and hardener, and quantity mixed

TYPICAL PERFORMANCE CHARACTERISTICS:

Temperature resistance:	-50°C to + 65°C depending on conditions of use
Water resistance:	Good
Oil & Petrol resistance:	Good
Chemical resistance:	Good
Sandability:	Sandable when hardened (wear a dust mask when sanding)
Paintability:	Good

PACKAGING

Please refer to Customer Service Department for details of current pack sizes.

SUBSTANCE IDENTIFICATION NUMBER

UN No. 3082 (bisphenol A - epoxy resin).

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HEALTH, SAFETY AND THE ENVIRONMENT

See the individual product Material Safety Data sheet.

STORAGE AND TRANSPORTATION

Store under dry conditions between 5 and 25°C.

SHELF LIFE

Maximum shelf life three years from the date of manufacture under the recommended storage conditions.

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