



RAPID SET CLEAR EPOXY

Description

ALCOLIN RAPID SET CLEAR EPOXY is a 2-part, clear, fast-setting, high strength polymer compound that mixes easily for fast permanent repairs to most rigid materials such as fibreglass, concrete, glass, metals, wood, PVC, and natural stone. The product sets to a clear invisible glue line that is water and chemical resistant.

Features & Benefits

- High strength bond.
- Fast setting – quick repairs within minutes.
- Clear – for an invisible glue line.
- Versatile – bonds almost anything
- Can be painted.
- Self-levelling flow – will fill small gaps and imperfections
- Gap filling – ideal for bonding of surfaces that are not perfect fits.
- Waterproof and chemical resistant – durable.

Applications

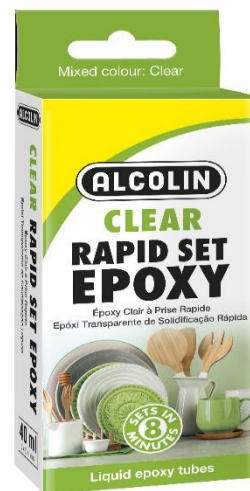
Ideal for making repairs and assemblies of parts made from ceramics, porcelain, glass, metal, and wood i.e. repairing of glass ornaments and ceramic plates, figurines, costumer jewelry and beads. Bonding of small wood and metal parts. Ideal for electrical insulation and encapsulation. Suitable for repairs and bonding of machinery, electronic and automotive parts. Ideal for handicraft applications and gluing of small parts where clamping is not possible. Can be combined with fibreglass cloth for a durable patch.

Adhesion

ALCOLIN RAPID SET CLEAR EPOXY bonds to metals, wood, glass, ceramic plaster, concrete, brick, natural stone such as marble and granite and some plastics such as fiberglass, polyacrylates, polycarbonates, ABS, hard PVC and painted surfaces.

Limitations

- Not suitable where a flexible bond is required.
- Does not bond to polyethylene, polypropylene or Teflon.
- Not suitable for surfaces that bleed oil, plasticizers or solvents.
- Not suitable for structural applications.
- Not suitable to apply in wet or damp surfaces or for continuous water immersion applications.
- Not suitable for applications requiring heat resistance above 100°C.



Safety instructions

ALCOLIN RAPID SET CLEAR EPOXY is non-toxic, however, it is advisable to wear gloves in order to avoid direct skin contact. In the event of eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. May be harmful if swallowed. Keep out of reach of children! Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

- In order to achieve optimum adhesion, surfaces should be clean, dry and free of grease and dirt.
- Wire brushing or sanding the surface prior to cleaning helps ensure a good bond.
- Glass should be degreased with a solvent such as acetone.
- As a precaution, it should be remembered that poor surface preparation might result in bond failure.

Directions for use

- Extrude an equal quantity of the two components.
- Using a spatula, mix these thoroughly, until a homogenous mixture is obtained.
- Only the amount that can be used within approx. 5 minutes, should be mixed at any one time.
- Apply the mixture thinly to one or both surfaces to be bonded, ensuring not to exceed the open time of approx. 5 minutes.
- Join the two parts and hold firmly together for approx. 1 to 10 minute depending on the size, shape and weight of the object. Objects will resist light manual pressure after about 10 minutes.
- Do not disturb the bonded parts until the adhesive has set.
- Remove any excess ALCOLIN RAPID SET CLEAR EPOXY immediately with acetone.
- Allow 12 hours for final bond strength to develop before subjecting to any service load.
- Cold conditions will retard cure time.

Cleaning

- Uncured epoxy can be cleaned with acetone.
- Cured epoxy has to be removed mechanically or heated above 120°C.

Storage stability

ALCOLIN RAPID SET CLEAR EPOXY has a shelf life of at least 12 months if stored in a cool (below 25°C), dry place in its original moisture-tight container. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a check should be performed to observe whether the product is still workable and uncured.

Product packaging

- 2 x 20ml aluminium tubes

TECHNICAL DATA SHEET

Product data

i. Physical data

Colour – Before mixing After cure	Resin (A) and Hardener (B) : Clear liquids Clear solid
Odour	Resin (A) – light solvent; Hardener (B) - amine
Density (g/cm ³) Parts A & B	1.15
Solids (%)	100

ii. Application data

Work life (minutes) at 23°C,RH 27%	~ 5 minutes
Final cure (hours) at 23°C,RH 27%	~ 12 hours
Hardens in (minutes) at 23°C,RH 27%	~ 10 minutes
Service Temperature °C	-60°C to 100°C
Shrinkage (%)	>1
Water resistance	Waterproof
Chemical Resistance	Hydrocarbons, oil, alcohols, esters, aqueous salt solutions, dilute acids and bases
Shore Hardness D	80
Shear strength (ABS-ABS) 24h, MPa	1.5
Shear strength (PC-PC) 24h, MPa	2
Shear strength (St-St) 24h, MPa	3

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

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