

MULTI PURPOSE EPOXY

2 PART HIGH STRENGTH ADHESIVE



DESCRIPTION:

RLA MULTI PURPOSE EPOXY is a 2-part, non sag, high strength adhesive intended for bonding of a variety of common building materials to vertical and horizontal surfaces. Common applications include fireplace surrounds, stairs, feature stone walls, tiles, rockeries and indoor garden displays

FEATURES AND BENEFITS:

- Permanent bond 5 – 6 hours
- Cure time 12 hours at 25°C
- Non staining on all stone types
- Non sag up to 30 mm thick
- Mix ratio 1:1
- Solvent free
- Permanent bond – no performance decrease over time
- High performance properties
- High tensile and compressive strength
- Excellent chemical resistance

USES:

- Bonding of Masonry, precast concrete, stone panels marble, granite, slate, ceramic tiles on walls or overhead in interior or exterior applications
- Feature walls
- Fireplace surrounds & Facades
- In-situ formed concrete
- Precast concrete
- Grouting/fixing anchor bolts
- Bonding to metals
- Concrete structures
- Outdoor entertaining areas
- Fabrication of head stones and other decorative stone items
- Statues and fountains
- Pipe and crack repair

SUBSTRATES

RLA Multi Purpose Epoxy must be applied to rigid surfaces including:

- Concrete
- Masonry
- Stone (not sandstone or fissile stones)
- Ceramic
- Metals

SURFACE PREPARATION:

All surfaces must be free of oil, grease, dust, loose material, laitance, corrosion deposits, organic growth, paint, and any other contamination that will inhibit the bond. Any cracked or weakened surface should be removed and repaired to provide a solid foundation. Refer to the range if RLA Repair mortars for details Structurally unsound layers and surface contaminants to be mechanically removed by abrasive blasting, scabbling, grinding or equivalent methods.

MIXING:

The mix ratio is 1:1 by volume:

1 parts Part A
1 parts Part B

- Pour the entire contents of the Hardener (Part B) into the Base (Part A) pail
- Using a suitable slow-speed drill and high shear mixing paddle, thoroughly mix the two components for 2 minutes until a fully uniform grey colour is obtained
- Scrape sides of the pail to incorporate all material, and mix for a further 2 minutes until well combined and a uniform consistency is achieved

IMPORTANT:

- Do not over mix as this may incorporate air bubbles
- Only mix as much Multipurpose Epoxy that can be used within the Pot Life (45-60 minutes @ 25°C).
- When mixed in large volumes >10 litres the Multi Purpose Epoxy is highly likely to cure faster thus reducing the pot life of the mixed material in the pail
- DO NOT dilute Multipurpose Epoxy with solvents as this will severely affect the performance of the product.

Low Temperature working

- To facilitate mixing and application at temperatures below 10°C, individual Part A and Part B components should be warmed in hot water bath or conditioned to room temperature up to a maximum temperature of 25°C before mixing
- Alternatively, the material should be stored in an environment controlled to 20°C and only removed immediately before use.

NOTE: If heated to 25°C, the mixed material will have a pot life that will be reduced to 45 minutes.

High temperature working:

At ambient temperatures above 30°C, the material should be stored in the shade or in an air-conditioned environment for 12 hours before use

APPLICATION:

- Apply the Multi Purpose Epoxy by spatula as soon as the mixing process has been completed

IMPORTANT:

- Do not attempt to rework or retemper any partially set product.
- Avoid waste by using all the kit within the specified pot life/working time

CURING:

- Permanent bond: 5-6 hours
- Full cure: 12 hours

Note: Where temperatures between 10°C and 5°C are likely during and after application, the rate of cure will be slowed considerably

COVERAGE/YIELD:

Bonding of Tiles

- Apply RLA Multipurpose Epoxy in dabs at each corner and center of panel (minimum) to be bonded
- Dabs of adhesive must be equivalent to 20% coverage tile area

Minimum dab sizes per tile to achieve 10% coverage with 5 dabs @ 20mm thick	
Tile Size	Adhesive dab diameter
300 x 300mm	35mm
600 x 600mm	70mm
900 x 900mm	70mm

Minimum dab sizes per tile to achieve 10% coverage with 3 dabs @ 20mm thick	
Stack Stone Size	Dabs & Diameter
400mm x 100mm	3 dabs @ 100mm in size

CLEAN UP:

- Clean all equipment immediately after mixing while the material is wet using warm water with detergent and
- Cured Multi-Purpose Epoxy can only be removed by mechanical means

SHELF LIFE/STORAGE:

- 2 years when stored in original unopened packaging
- Best stored in a dry area between 5°C and 35°C
- Keep out of direct sunlight

PACKAGING:

1Lt Kit: Part A: 0.5litre/Part B: 0.5litre

4Lt Kit: Part A: 2litre/Part B: 2litre

20Lt Kit: Part A: 10litre/ Part B: 10 litre

LIMITATIONS:

- The recommended application temperature is between 5°C and 30°C. Refer to Mixing section for recommendations for low and high temperature working
- When mixed in large volumes >10 litres the Multi Purpose Epoxy is highly likely to cure faster thus reducing the pot life of the mixed material in the pail
- DO NOT dilute Multipurpose Epoxy with solvents as this will severely affect the performance of the product.
- Only mix as much Multipurpose Epoxy that can be used within the Pot Life (45-60 minutes @ 25°C).
- Surfaces must be rigid. Not suitable for blueboard, cement sheeting or compressed material as this may cause substrate to internally delaminate under stress.
- Not recommended for sandstone and other fissile stones – these stones can be porous or veneered which will cause the bond to fail by delamination of the stone surface.
- Contact RLA Technical department for additional information

HEALTH & SAFETY

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data

TECHNICAL DATA:

PRODUCT INFORMATION:	
Form	Thixotropic paste with no slag/slump
Colour	Hardener – Black Base – White Grey when mixed
Specific Gravity (mixed)	1.45
Solids content	100%
PERFORMANCE DATA:	
Compressive Strength (full cure)	100MPa
Flexural Strength (full cure)	22MPa
Bond Strength	> 15MPa
Service Temperature	-20°C to +50°C
Hardness	>80 Shore A
SETTING TIMES @ 20°C	
Minimum Application Temp	5°C
Pot life	50-60 mins @ 25°C
Working Time	45 mins @ 25°C
Initial Cure	12hours
Full Cure	3 days
CHEMICAL RESISTANCE Tested to ASTM D570	
Citric Acid 100%	Excellent
Acetic Acid 5%	Excellent
Sodium Hydroxide 30%	Excellent
Diesel Fuel/Petrol	Excellent
Sugar Solutions	Very Good
Tartaric Acid 100%	Very Good
Hydrocarbons	Very Good
Phosphoric Acid	Very Good
*Resistant to spillage. Surface staining may result from exposure to some aggressive chemicals. All spills should be quickly removed and washed. Over exposure may result in surface degradation	

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.

RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where a product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out in accordance with relevant Australian Standards.

Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.

Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.

The consumer is responsible for any expenses incurred in making a claim.

A claim form can be requested by:

PHONE: 1800 242 931

EMAIL: info@rlapolymers.com.au

MAIL: 215 Colchester Road Kilsyth Victoria 3137
(Attention Customer Service)

WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed.

Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.

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