



# STRONGER BOND STRONGER STRUCTURE







#### **LEGACY**

Founded in 1947 by a legendary Indian, Shri Kasturbhai Lalbhai, Atul Ltd (Atul) is amongst the first companies of independent India. It has the privilege of being the first private sector company of India to be inaugurated by the first Prime Minister of the country, Pandit Jawaharlal Nehru.



#### PROFILE

The first site of Atul, spread over 1,250 acres of land, houses one of the largest and the greenest chemical complexes of its kind in the world. Starting with just a few textile dyes, the Company now manufactures over 1,380 products and formulations. The Company manages complex chemical processes in a responsible way. It has established fruitful and time-tested collaborations with leading multinational companies of the world.

An ISO 9001:2008 and ISO 14001 certified company, Atul serves customers from diverse industries such as Adhesives, Agriculture, Animal Feed, Automobile, Construction, Cosmetics, Defence, Dyestuff, Electrical and Electronics, Flavour, Food, Footwear, Fragrance, Glass, Home Care, Horticulture, Hospitality, Paint and Coatings, Paper, Personal Care, Pharmaceutical, Plastic, Polymer, Rubber, Soap and Detergent, Sports and Leisure, Textile, Tyre and Wind energy.









#### **POLYMERS BUSINESS**

Atul is a pioneer in manufacturing epoxy resins in India. The Company is one of the largest manufacturers of epoxy resins and hardeners in the country. It has a portfolio of over 450 world class products that have a range of applications including bangles, construction chemicals, handicraft, sports goods and stone processing. The products are marketed and sold under the brand name of Lapox®.

Atul strives to create a leading position in the business-to-consumer segment for its epoxy range of products. Lapox® has a presence across India and is readily available at all hardware, paint and sanitary retail outlets. Lapox® has been training several users to build the required skill sets for specialised epoxy system applications.

In 2010, Atul acquired the Polygrip® brand to market synthetic rubber and polyurethane based adhesives in India. Today, it is among the top selling adhesive brands with a diverse range of value-added products.



Lapox® Ultra is a two-component modified, viscous epoxy adhesive system. It creates strong adhesion with similar and dissimilar substrates such as glass, metal, laminate,



## Benefits

- Bonds almost all types of substrates
- Resistant to water and most chemicals
- High workability time
- High coverage
- No solvent, hence it does not smell and pose any health hazards

## **Applications**

- Marble and granite fixing on kitchen and window frames
- Sand broadcasting
- Assembling of marble temple
- Wood work
- Wood to wood bonding
- Wood to marble bonding
- Wood to glass bonding
- Steel railing grouting



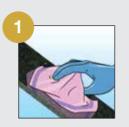
### **Packaging units**

Tube packs	6.5 g	13 g	36 g	90 g	180 g
Jar packs	450 g	900 g	1.8 kg	9 kg	

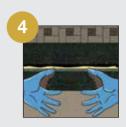
#### Coverage

75 - 80 sq ft per 1.8 kg set

### Application process for granite-to-granite bonding



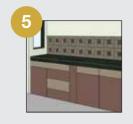
Ensure that the surface is dry, clean and free of oil, grease and other contaminants.



After applying the paste, ensure that the substrate is held in place with a suitable support for a minimum of 8 - 9 hour.



Mix the resin and hardener, in a 1:0.8 ratio by weight, on a dry and clean flat surface. Thoroughly mix the materials until a homogeneous paste with a uniform colour is achieved.



Leave it for a minimum of 24 hour to achieve optimum strength.



Apply the mixed material using a spatula on the surface to be adhered. It should be used within its pot life time. Ensure even levelling while affixing both substrates.

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

#### Technical details

Properties	Unit	Lapox <sup>®</sup> Ultra
Mixing properties		
Mixing ratio	w/w	100 : 80
Mixing ratio	v/v	100 : 100
Mix viscosity at 25°C	cps	30,000 - 35,000
Pot life at 25°C (100g mixed mass)	minutes	75 - 90
Curing characteristics (for 250µ film) - drying time at 25°C		
Surface dry	hours	2 - 2.5
Touch dry	hours	5 - 5.5
Hard dry	hours	8 - 9
Mechanical properties		
Lap shear strength (Al/Al) at 25°C, after 24 hour curing	kg/cm²	min 120
Hardness after 24 hour curing	shore D	min 75

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Lapox® Rapid & Clear is a rapid setting, multi-purpose, two-component system for adhesion of similar and dissimilar substrates including metal, glass, plastic, rubber and most other materials in common use.



#### **Benefits**

- Transparent and waterproof bond
- Chemical resistant
- Low labour cost due to rapid curing

#### **Applications**

- Marble to marble bonding
- Glass to glass bonding
- Wood to glass bonding

### Packaging units

6 g | 12 g | 36 g | 90 g | 180 g

#### Coverage

7 - 8 sq ft per 180 g set



### Application process for glass-to-glass bonding



Ensure that the surface is dry, clean and free of oil, grease and other contaminants.



Apply the mixed material using a brush or a spatula on the surface to be adhered within its pot life time.
Ensure even levelling while affixing both substrates.



Thoroughly mix the resin and hardener, in a 1:1 ratio by weight, on a dry and clean flat surface until a homogeneous paste with a uniform colour is achieved.



After applying the paste, ensure that the substrate is held in place with suitable support for a minimum of 30 - 60 minutes. Leave it for a minimum of 24 hour to achieve optimum strength.

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

### **Technical details**

Properties	Unit	Lapox® Rapid & Clear
Mixing properties		
Mixing ratio	w/w	100 : 100
Mixing ratio	v/v	100 : 100
Mix viscosity at 25°C	cps	30,000 - 35,000
Pot life at 25°C (10g mixed mass)	minutes	3 - 7
Curing characteristics (for 250µ film) - drying time at 25°C		
Surface dry	minutes	5 - 10
Touch dry	minutes	15 - 20
Hard dry	minutes	50 - 60
Mechanical properties		
Lap shear strength (Al/Al) at 25°C, after 24 hour curing	kg/cm²	min 80
Hardness after 24 hour curing	shore D	min 75



Lapox® Ultrafix is a two-component, high performance, fast-setting epoxy adhesive used for multiple applications. It provides excellent bond strength for various substrates including granite, marble, wood, synthetic and ceramic tiles.



#### **Benefits**

- Super bond strength
- High productivity due to rapid curing
- Excellent adhesion in wet and moist conditions
- Resistant to water, electric current and mechanical vibrations
- Low cost due to spot bonding application
- Negligible shrinkage on curing
- Thixotropic in nature, hence it does not sag

## **Applications**

- Vertical cladding of marble, granite and stone on various substrates such as concrete, plywood, cement fibre board and metal
- Underwater tile fixing
- Anchoring grout for reinforced steel
- Repairing and gap filling of concrete cracks
- Sand broadcasting on smooth surfaces such as marble and stone for better grip



#### **Packaging unit**

1.5 kg

#### Coverage

12 sq ft for 1 mm thickness per 1.5 kg set

#### Application process for stone cladding



Ensure that the surface is dry, clean and free of oil, grease and other contaminants. Take desired quantity of the resin and hardener, in a 1:0.5 ratio by weight, in a clean container.



Thoroughly mix it till a homogeneous paste with a uniform colour is achieved. Quickly apply the paste at the four corners as well as the center of the stone.

Consume the paste within 5 - 10 minutes.



Ensure that the levelling is even while affixing the stone on the wall.



After levelling, ensure that the stone is held in place with a suitable support for a minimum of 5 hour.
Leave it for a minimum of 24 hour to achieve optimum strength.

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

#### **Technical details**

Properties	Unit	Lapox® Ultrafix
Mixing properties		
Mixing ratio	w/w	100 : 50
Mix viscosity at 25°C		paste consistency
Pot life at 25°C (10g mixed mass)	minutes	10 - 15
Curing characteristics (for 250µ film) - drying time at 25°C		
Surface dry	minutes	50 - 60
Touch dry	minutes	80 - 90
Hard dry	minutes	140 - 150
Mechanical properties		
Lap shear strength (Al/Al) at 25°C, after 24 hour curing	kg/cm²	min 120
Compressive strength after 7 days of curing	kg/cm²	400 - 420
Water absorption after 24 hour	%	max 0.5
Pullout load (substrate, concrete failure)	kN	35
Hardness after 24 hour curing	shore D	min 75



Lapox® Ultraseal is a two-component, room temperature setting, easy to use multi-purpose epoxy putty for plumbing and non-plumbing applications.



#### **Benefits**

- Ideal for repairs due to its quick setting time
- Within 1 2 hour of application, the affected surface can be used
- No shrinkage
- Resistant to most commonly used solvents
- Can be sanded, drilled and painted
- High tensile and shear strength
- Can be moulded in different shapes
- Bond withstands the temperature up to 120°C
- Creates rock hard sealing bond

## **Applications General**

- Bonding metals, masonry, brick, glass rubber, fiberglass, composite, stone, marble and many rigid plastics
- Sealing leakages of water pipelines and storage tanks
- Joining broken ceramic, wooden and household items
- Fixing loose screws on walls

#### Automobile

- Filling of dents and cracks
- Sealing leakages in radiators, fuel tanks, mufflers, silencers and metal strips



#### Electrical

- Insulating electrical connections
- Sealing leakages in transformer systems to prevent oxidation
- Sealing fuse and choke units of mercury lamps
- Sealing motor terminals, balancing motors and frameworks
- Moisture proofing CI and cable joints

#### Civil Engineering

- Sealing water supply mains, concrete and sewage pipelines
- Filling and repairing ceramics

#### **Packaging units**

Fast setting
25 g | 60 g

General purpose 1 kg

#### Application process to stop plumbing leakage



Ensure that the surface is dry, clean and free of oil, grease and other contaminants. The surface must be abraded with a coarse emery paper or chemically etched paper.



Apply homogenous mass within 2-3 minutes of kneading. Smoothen epoxy putty when it is sticky with a wet cloth or by pressing a polythene sheet on it.



Mixing of the resin and hardener putty

- Twist or cut off equal amount (1:1) of the resin and hardener putty
- Roll and knead the putty until the colour is black



Peel off the polythene sheet after curing. Initial setting time is 60 minutes after application at 27°C. Unused resin and hardener should be repacked in respective wrappers as they have a shelf life of 1 year from the month of manufacturing.

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Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

## Technical details

Properties	Unit	Lapox® Ultraseal
Mixing ratio	w/w	1:1
Mix colour	visual	light grey
Mix density	gm/cc	2.40 - 2.60
Solid content (by wt)	%	100
Working time at 25°C	minutes	15 - 20
Initial hardening time	minutes	30 - 40
Lap shear strength (Al/Al) at 25°C, after 24 hour curing	kg/cm²	min 70
Hardness after 24 hour curing	shore D	min 80
Water absorption	%	max 0.5
Compressive strength	kg/cm²	min 400
Di-Electric strength at RT	KV/mm	min 10



Lapox® Lacrete is a unique and versatile epoxy based system. It is used for multiple applications such as waterproofing in bathrooms and terraces, grouting of core-cut, bond coat, concrete repairing and strengthening, epoxy injection grouting and anti-corrosive coating for steel bars.



#### **Benefits**

- Creates a solid barrier against water penetration and thus provides long lasting and durable waterproofing solution
- Does not shrink
- Provides excellent adhesion to multiple surfaces
- Having low viscosity, it provides high coverage
- Addition of filler reduces the system cost considerably
- Provides high bond strength
- · Resistant to oil, fuel and most chemicals
- Resistant to vibrations
- Certified by CFTRI Mysore for food grade applications

#### **Applications**

- Waterproofing in bathrooms and terraces
- Grouting of core-cut in bathrooms
- Bonding of old and new concrete and repairing structures
- Injection grouting
- Primer coat and screed for epoxy flooring
- Anti-corrosive coating for steel bars
- · Waterproofing of water tanks



#### Packaging units

1.5 kg | 7.5 kg | 45 kg

#### Coverage

Primer application: 40 sq ft for 150µ thickness per kg Screed application:

4.5 - 5 sq ft for 1 mm thickness per kg

#### Application process for bathroom waterproofing



Ensure that the concrete surface is dry, clean and free of contaminants such as oil and grease. Remove loose particles and dust using a wire brush.



Thoroughly mix Lapox® Lacrete resin and hardener, in a 1:0.5 ratio, with 8-9 parts of Quartz Sand no. 10. Prepare the angle fillet (watta) 3-4 hour after applying the first coat.



Thoroughly mix Lapox® Lacrete resin and hardener, in a 1:0.5 ratio, in a disposable bowl.



Apply the second waterproofing coat or screed 5-6 hour after preparing the angle fillet. Prepare the material for screed application by mixing Lapox® Lacrete resin and hardener, in a 1:0.5 ratio, with 5 - 6 parts of Quartz Sand no. 10.



Using a brush, roller or spreader, apply the mixed material in a thin, uniform layer on the substrate. This will act as a primer.



For optimum results, allow it to cure for 48 - 72 hour,

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

#### Technical details

Properties	Unit	Lapox <sup>®</sup> Lacrete
Mixing properties		
Mixing ratio	w/w	100 : 50
Mixing ratio	v/v	2:1
Mix viscosity at 25°C	cps	800 - 1,200
Pot life at 25°C (100g mixed mass)	minutes	65 - 85
Coverage for primer application (150µ per coat)	g/m²	250 - 300
Coverage for screed application	kg/m² per mm	2 - 2.2
Curing characteristics (for 250µ film) - drying time at 25°C		
Surface dry	hours	5
Touch dry	hours	8
Mechanical properties		
Lap shear strength (Al/Al) at 25°C, after 24 hour curing	kg/cm <sup>2</sup>	min 90
Water absorption	%	max 0.5
Hardness after 24 hour curing	shore D	min 75
Compressive strength (with Quartz Sand no. 10)	kg/cm²	800 - 900
Flexural strength (with Quartz Sand no. 10)	kg/cm²	300 - 400



Lapox® Ultraquick is a one-component, solvent free, nearly instant setting adhesive. It is compatible with a wide range of materials such as plastics, marble, wood, metals, glass and rubber. It is easy to dispense from a convenient squeeze-tube packaging and is good for bonding small parts and

adaptable to high-speed assembly

operations using automatic dispensing.



## **Benefits**

- Instant bonding
- Bonds well using contact pressure only. No clamping is required
- Cost effective; less quantity of adhesive is required to form a strong bond
- Resists most chemicals including gasoline, kerosene and various oils
- No solvent evaporation or hazardous vapour emissions
- Compatible with wood dust

#### **Applications**

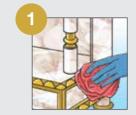
- Bonding marble, glass, metal, wood, gift articles and handicraft
- PVC door and furniture gap filling
- Flex banner bonding on MS frames

## Packaging unit

20 g



#### Application process to bond marble temple



Ensure that the surface is dry, clean and free of oil, grease and other contaminants.

The surface must be abraded with a coarse emery paper or chemically etched paper.



Apply sufficient pressure to ensure that the adhesive spreads into a thin film.

Do not disturb or re-align the components until curing is achieved. Any surplus adhesive can be removed with a cleaner.



Apply the adhesive sparingly onto the surface (usually 1 drop is sufficient). Align the components properly and quickly bring them in contact.

Note: For difficult or porous surfaces, an activator is recommended. Apply polyolefin primer on the surface prior to bonding to polypropylene, polyethylene, PTFE or silicone surface.

## **Technical details**

Properties	Unit	Lapox® Ultraquick
Viscosity	mPas	max 5
Flash point	°C	84
Solubility	_	Nitro methanol, acetone, dimethylformamide
Service temperature	°C	-55 to 82
Cure speed on MS - MS joint	second	≤ 20
Lap shear strength (MS/MS) at 25°C, after 1 hour curing	kg/cm <sup>2</sup>	min 90



JR 150 / JH 350

Lapox® Granito JR 150/JH 350 is a two-component modified epoxy based system. It is best suited for treatment of Italian marble and granite as it shows excellent penetration and gloss properties after curing.



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#### **Benefits**

- Enhances natural appearance of marble and granite
- Low viscosity results in good penetration into cracks
- Clear and transparent coating
- Compatible with pigments
- Water and chemical resistant
- Free from solvent and unpleasant odour

#### **Applications**

- Coating and crack filling in natural marble, Italian marble and granite
- Stone casting
- Embellishing stone surface

#### **Packaging units**

1.25 kg | 5 kg | 10 kg | 250 kg

#### Coverage

100 - 110 sq ft per kg

## **Application process**



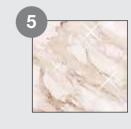
Thoroughly clean the cracks on the marble slab. Ensure that the surface is free of dirt, oil, grease and moisture. Wipe off the marble surface with a clean cloth. Inadequately treated substrates may not show satisfactory results.



Allow it to cure in daylight for 24 hour. Excess material can be ground and removed from the marble surface.



Thoroughly mix the resin and hardener, in a 1:0.25 ratio in a disposable bowl. Dispense the mixed material into the cracks. Pigmentation can be done by adding suitable pigment.



Faster productivity can be achieved if curing is done at a higher temperature (40°C - 60°C).

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Micro/hair line crack treatment: Apply the mixed material on the complete surface of marble with the help of a metal spatula or a roller. Apply as many coats as required, depending upon the nature of cracks on the surface.

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

#### Technical details

Properties	Unit	Lapox® Granito JR150 / JH350
Mixing ratio	w/w	100 : 25
Mixing ratio	v/v	4:1
Mix viscosity at 25°C	cps	200 - 300
Pot life at 25°C (100g mixed mass)	minutes	35 - 45
Surface dry at 42 $\pm$ 1°C (for 200 $\mu$ film)	hours	1.5 - 2
Touch dry at 42 $\pm$ 1°C (For 200 $\mu$ film)	hours	2.5 - 3
Water absorption (24 hour immersion)	%	max 0.4
Hardness after 24 hour curing	shore D	min 70
Optical clarity	visual	excellent
Tg, RT curing for 24 hour	°C	50 - 55



Lapox® Powergrip is a two-component modified, viscous epoxy adhesive system. It provides excellent bond strength for various substrates including glass, metals, reactive plastics, wood, textile and natural stones



## Benefits

- High bond strength
- Resistant to water, chemical and electric current

## **Applications**

- Grouting of steel railings
- Stone and marble fixing
- Designing of stone mosaic
- Jewel stone fixing
- Electrical components

## **Packaging units**

450 g | 900 g | 1.8 kg | 9 kg

## Coverage

70 - 80 sq ft per 1.8 kg set

## Application process



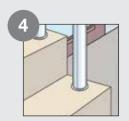
Ensure that the surface is dry, clean and free of oil, grease and other contaminants.



Pour the mixed material into the hole. It should be used within its pot life time.



Mix the resin and hardener in a 1:0.8 ratio by weight. Thoroughly mix the materials until a homogeneous paste with a uniform colour is achieved.



After pouring the paste, ensure that the substrate is held in place with a suitable support for a minimum of 8 - 9 hour. Allow it to cure in daylight for 24 hour.

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

#### Technical details

Properties	Unit	Lapox® Powergrip
Mixing ratio	w/w	100 : 80
Mix viscosity at 25°C	mPas	30,000 - 40,000
Pot life at 25°C (100g mixed mass)	minutes	65 - 80
Peak Exotherm temperature	°C	max 60
Surface dry	minutes	150 - 180
Touch dry	minutes	300 - 360
Hard dry	minutes	510 - 530
Lap shear strength at 25°C	kg/cm <sup>2</sup>	min 100 - 110



Lapox® Marbobond Visco is a solvent based system used for the treatment of sandstone and low density marble. It gives an excellent gloss after polishing the marble surface. Having low viscosity, it penetrates very well into cracks in marble and granite and gets cured at room temperature.



#### **Benefits**

- Specially designed to fill micro and wider cracks in granite and marble
- Excellent penetration in cracks
- Good moisture resistance
- Compatible with pigments
- Good colour stability
- Thermally stable and performs excellently in extreme conditions

## **Applications**

- Crack filling and coating on marble and granite
- Crack filling and coating of sandstone and low density marble

### Packaging units

1.5 kg | 7.5 kg | 250 kg

#### Coverage

100 - 110 sq ft per kg

## **Application process**



Thoroughly clean the cracks on marble slab. Ensure that the surface is free of dirt, oil, grease and moisture. Wipe off the surface of marble with a clean cloth. Inadequately treated substrates may not show satisfactory results.

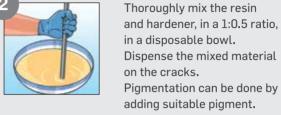


Allow it to cure in daylight for 24 hour. The excess material can be ground and removed from the marble surface.



Faster productivity can be achieved if curing is done at a higher temperature (40°C - 60°C).

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Dispense the mixed material on the cracks. Pigmentation can be done by adding suitable pigment. Micro/hair line crack treatment:

Apply the mixed material on the complete surface of marble with the help of a metal spatula or a roller. Apply as many coats as required, depending upon the nature of cracks on the surface.

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

## Technical details

Properties	Unit	Lapox <sup>®</sup> Marbobond Visco
Mixing ratio	w/w	100 : 50
Mixing ratio	v/v	2:1
Mix viscosity at 25°C	cps	300 - 400
Pot life at 25°C (100g mixed mass)	minutes	70 - 90
Surface dry at 42 $\pm$ 1°C (for 200 $\mu$ film)	hours	1.5 - 2
Touch dry at 42 $\pm$ 1°C (for 200 $\mu$ film)	hours	2.5 - 3
Water absorption (24 hour immersion)	%	max 0.4
Hardness after 24 hour curing	shore D	min 60
Optical clarity	visual	excellent



Lapox® Marbobond Clear is a solvent-free modified epoxy system suitable for the treatment of marble and granite. It gives an excellent gloss after polishing the marble surface. Having low viscosity, it penetrates very well into cracks in marble and granite and gets cured at room temperature.



#### **Benefits**

- Clear and transparent system
- Excellent for crack filling and pinhole filling
- Compatible with pigments
- Good colour stability

#### **Applications**

- Crack filling and coating for marble and granite
- Casting

#### **Packaging units**

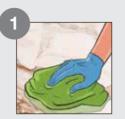
1.3 kg | 4 kg | 12 kg

#### Coverage

80 - 90 sq ft per kg



### **Application process**



Thoroughly clean the cracks on the marble slab. Ensure that the surface is free of dirt, oil, grease and moisture. Wipe off the marble surface with a clean cloth. Inadequately treated substrates may not show satisfactory results.



Thoroughly mix the resin and hardener, in a 1:0.3 ratio, in a dispensing bowl.

Pigmentation can be done by adding a suitable pigment.



Micro/hair line crack treatment: Apply the mixed material on the complete marble surface with the help of a metal spatula or a roller. Apply as many coats as required, depending upon the nature of cracks on the surface.



Allow it to cure in daylight for 24 hour. The excess material can be ground and removed from the marble surface.



Faster productivity can be achieved if curing is done at a higher temperature  $(40^{\circ}\text{C} - 60^{\circ}\text{C})$ .

Note: All application tools should be cleaned with a solvent such as acetone before the adhesive cures permanently on the tools.

## Technical details

Properties	Unit	Lapox® Marbobond Clear
Mixing ratio	w/w	100:30
Mix viscosity at 25°C	cps	500 - 600
Pot life at 25°C (100g mixed mass)	minutes	80 - 100
Surface dry at 42 $\pm$ 1°C (for 200 $\mu$ film)	hours	3 - 4
Touch dry at 42 $\pm$ 1°C (for 200 $\mu$ film)	hours	6 - 6.5
Water absorption (24 hour immersion)	%	max 0.5
Hardness after 24 hour curing	shore D	min 75
Optical clarity	visual	excellent

## Safety and precautions to be taken while using Lapox adhesives

- Wear gloves while mixing and applying the adhesive
- Avoid contact with eyes and skin. In case of eye/skin contact, wash off immediately with plenty of water. Seek immediate medical attention if required
- After applying adhesive, wash hands thoroughly with soap and warm water
- Keep out of reach of children
- · Store in a cool and dry place and away from direct sunlight







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