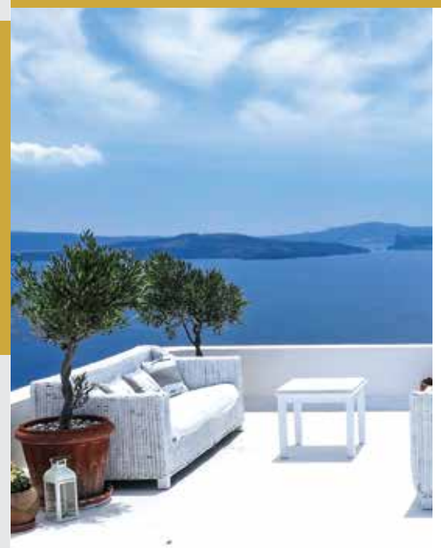
Atul

LAPOX®
epoxy adhesives

Premium range of solutions for construction industry



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Lapox® Construction Brochure/09-20/Heshli

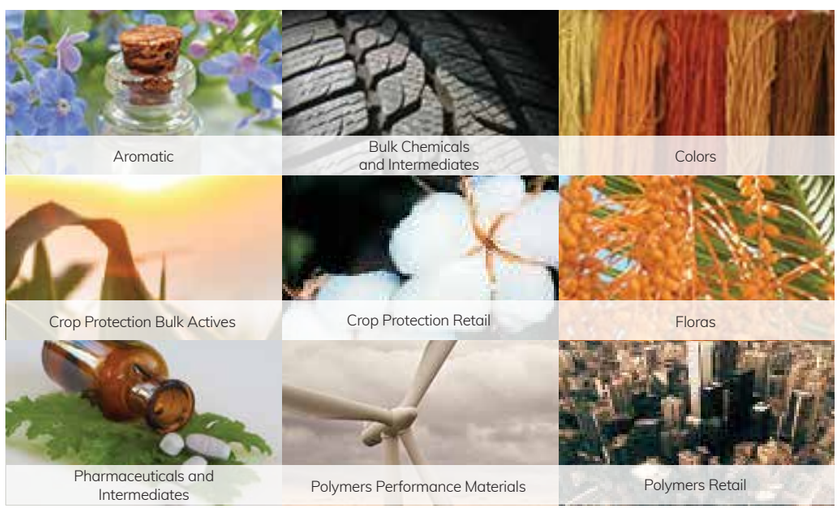
bird's eye view of Atul complex

LEGACY

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

PROFILE

Atul is an integrated chemical company manufacturing ~ 900 products and ~ 400 formulations from basic chemicals. The Company started its journey over seven decades ago and has many firsts to its credit from textile dyes to tissue culture raised date palm plants, as it serves about 4,000 customers belonging to around 30 industries. It manages complex chemical processes in a responsible way and has established fruitful and time-tested collaborations with leading multinational companies of the world.



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 world-class products that find applications in stone processing, construction chemicals, bangles, handicraft, aerospace, defence, high performance paints, sport goods etc. Epoxy and allied products are marketed and sold under the brand name of Lapox®.

To cater to the growing demand in the automobile and industrial maintenance market, a range of maintenance products are being marketed under the brand name of Lacare®.

In 2010, Atul acquired Polygrip®, to market synthetic rubber and polyurethane based adhesives in India. Today, it is an established adhesive brand in the retail market in India, with a diverse range of value-added products. Polygrip® has a wide range of products for various applications in footwear, foam and furnishing, furniture, flooring, HVAC and automobiles.

LAPOX® ULTRA

ULTIMATE STRENGTH
EPOXY ADHESIVE

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

Benefits

- bonds almost all types of substrates
- high bond strength
- resistant to water and most chemicals
- high workability time
- no solvent; hence, it does not smell and pose any health hazards

Applications

- marble and granite fixing in kitchens and window frames
- sand broadcasting
- assembling of marble temple
- wood work
  - wood to wood bonding
  - wood to marble bonding
  - wood to glass bonding
- grouting steel railings

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 - 75 sq ft per 1.8 kg set

* This is a material replacement warranty. Material must be purchased with a proper tax invoice. Warranty is valid on a minimum purchase of 20 kg of Lapox® Ultra. Application at site must be carried out within 60 days of material purchase **Coverage may vary depending upon the surface conditions.

Application process for granite-to-granite bonding

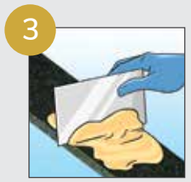
1

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

2

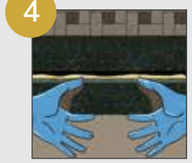
Mix the resin and hardener, in a ratio of 1 : 0.8 by weight, on a dry and clean flat surface. Mix the materials thoroughly until a homogeneous paste with a uniform colour is achieved.

3



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 the substrates.

4



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

5

Leave it for a minimum of 24 hours 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® 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 (100 g mixed mass)	minutes	75 - 90
Curing characteristics (for 250 µ 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 hours curing	kg/cm^2	min 120
Hardness after 24 hours curing	shore D	min 75

LAPOX®

RAPID & CLEAR

RAPID SETTING CLEAR ADHESIVE

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

Benefits

- fast setting
- transparent and waterproof bonding
- does not turn yellow on exposure to light
- higher bonding strength
- easy to use due to rapid curing, hence low labour cost
- chemical resistant

Applications

- marble to marble bonding
- glass to glass bonding
- wood to glass bonding

Packaging units

Tube packs	6 g	12 g	36 g	90 g	180 g
Jar packs	1 kg	2 kg			

Coverage**

7 - 8 sq ft per 180 g set

*Setting time and product performance are subject to ideal and standard temperature, quantities mixed and application method as directed.
**Coverage may vary depending upon the surface conditions.

Application process for glass-to-glass bonding

1

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

2

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

3

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 the substrates.

4

Ensure that the substrate is held in place with suitable support for a minimum of 30 - 60 minutes after application of the paste. Leave it for a minimum of 24 hours 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 (10 g mixed mass)	minutes	3 - 5
Curing characteristics (for 250 µ 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 hours curing	kg/cm^2	min 80
Hardness after 24 hours curing	shore D	min 75

LAPOX® ULTRAFIX

EPOXY ADHESIVE FOR MARBLE CLADDING AND UNDERWATER APPLICATION

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

- superior bond strength
- excellent adhesion in wet and moist conditions
- high productivity due to rapid curing
- low cost due to spot bonding application
- negligible shrinkage on curing
- resistant to water, electric current and mechanical vibrations
- thixotropic in nature; hence, it does not sag

Applications

- vertical cladding of granite, marble and stone on various substrates such as concrete, plywood, cement fibre boards and metal
- anchoring grout for reinforced steel
- repairing and gap filling of concrete cracks
- sand broadcasting on smooth surfaces such as marble and stone for a better grip
- underwater tile fixing

Packaging unit

1.5 kg

Coverage**

12 sq ft for 1 mm thickness per 1.5 kg set

*Setting time and product performance are subject to ideal and standard temperature, quantities mixed and application method as directed.
**Coverage may vary depending upon the surface conditions.

Application process for stone cladding

1

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 ratio of 1 : 0.5 by weight, in a clean container.

2

Mix it thoroughly till a homogeneous paste with uniform colour is achieved. Quickly apply the paste at the four corners as well as the centre of the stone. Consume the paste within 5 - 10 minutes.

3

Ensure even leveling while affixing the stone on the wall.

4

After leveling, ensure that the stone is held in place with a suitable support for a minimum of 5 hours. Leave it for a minimum of 24 hours 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 (10 g mixed mass)	minutes	10 - 15
Curing characteristics (for 250 μ 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 hours curing	kg/cm^2	min 120
Compressive strength after 7 days of curing	kg/cm^2	400 - 420
Water absorption after 24 hours	%	max 0.5
Pull-out load (substrate, concrete failure)	kN	35
Hardness after 24 hours curing	shore D	min 75

LAPOX® EPOGROUT

STAIN-FREE, WATERPROOF, EPOXY TILE GROUT FOR WALL AND FLOOR

Lapox® Epogrout is a 3-component, stain-free, waterproof epoxy tile grout especially designed for filling tile joints in wall and floor applications of ceramic tile, vitrified tile, mosaic, stone and structural glazed blocks. It is available in attractive shades.

Benefits

- 100% stain-free and waterproof tile grout
- anti-bacterial and anti-fungal
- can be easily cleaned with water
- does not sag, hence ideal for vertical applications
- easy to apply, non-shrink and crack-free tile grout
- resistant to many acids, alkalis, corrosive chemicals, salt water, oils and fats

Applications

- food processing units
- high footfall areas in
  - homes
  - institutions
  - industries
- tile joints in
  - kitchens
  - bathrooms
  - swimming pools

Coverage*

35 sq ft per kg for 3 mm tile joint width
(tile size: 300 mm (length) X 300 mm (width) X 10 mm (thickness))

*Coverage may vary depending upon the surface conditions, width and depth of tile joints.

Packaging units

Unit	Hardener (Part A)	Resin (Part B)	Filler (Part C)
1 kg	70 g	180 g	750 g
5 kg	360 g	900 g	3740 g

Application process

1. Mix thoroughly (by weight) the hardener (Part A), resin (Part B) and filler (Part C).

2. Add filler gradually while mixing until a homogeneous paste is obtained.

3. Fill the tile joints with the help of a squeegee trowel within its pot life.

4. Remove the excess grout material from joints. Clean the tiles with wet sponge after 10 - 15 minutes of application.

5. Allow tile joints to dry before subjecting to foot traffic.

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® Epogrout
Initial setting time	hours	minimum 3
Lap shear strength after 24 hours	kg/cm^2	minimum 120
Compressive strength after 24 hours	kg/cm^2	minimum 500
Compressive strength after 7 days	kg/cm^2	minimum 800
Sag resistance test at 25°C	-	no sagging
Hardness	shore D	minimum 80
Water absorption after 24 hours	%	maximum 0.5
Foot traffic	hours	24
Heavy traffic	hours	72

Available shades

Bright White · Ivory · Grey · Black · Coffee Brown · Canyon Red · Terracotta · Sauterne · Silver

LAPOX® LACRETE

EPOXY SYSTEM FOR
WATERPROOFING AND REPAIRS

Lapox® Lacrete is a unique and versatile epoxy based system. It is used for multiple applications such as waterproofing of terraces and bathrooms, grouting of core-cut, bond coat, concrete repair 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
- high penetrating ability to fill pinholes in porous materials due to low viscosity
- provides excellent adhesion and high bonding strength
- resistant to oils, fuels and most chemicals
- resistant to vibrations
- addition of filler reduces the system cost considerably
- certified by CFTRI Mysore for food grade applications

Applications

- anti-corrosive coating for steel bars
- bonding of old and new concrete and repairing concrete structures
- grouting of core-cut in bathrooms
- primer coat and screed for epoxy flooring
- waterproofing of
  - terraces
  - bathrooms
  - water tanks

Packaging units

1.5 kg	7.5 kg	45 kg

Coverage**

Primer application:
40 sq ft for 150 µ thickness per kg
Screed application:
4.5 - 5 sq ft for 1 mm thickness per kg

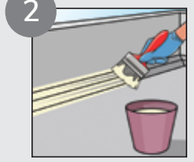
* Warranty is applicable on a minimum application area of 2,000 sq. ft. Application of Lapox® Lacrete and Lapox® Procoat must be carried out in 2 coats each. Application must be carried out under the supervision of the Company (Atul Ltd) representative. Product application guidelines and process must be adhered to as suggested by the Company **Coverage may vary depending upon the surface conditions.

Application process for terrace waterproofing

1

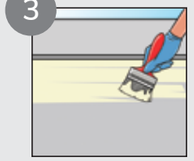
Clean the surface thoroughly.

2



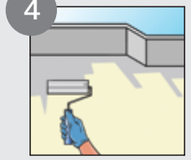
Check for hollow portions and major cracks and fill them with mortar mixed with Lapox® Lacrete. Fill the wall to floor joints (fillets) with the same mortar.

3



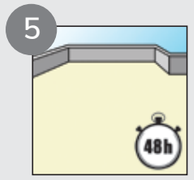
Mix thoroughly Lapox® Lacrete resin and hardener thoroughly in 1 : 0.5 ratio, and apply the waterproofing coating on terrace.

4



Protect Lapox® Lacrete waterproofing coating by applying Lapox® Procoat, an UV resistant coating.

5



For optimum results, allow the system to cure for a minimum of 48 hours.

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® 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 (100 g mixed mass)	minutes	65 - 85
Coverage for primer application (150 µ per coat)	g/m^2	250 - 300
Coverage for screed application	kg/m^2 per mm	2 - 2.2
Curing characteristics (for 250 µ 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 hours curing	kg/cm^2	min 90
Water absorption	%	max 0.5
Hardness after 24 hours curing	shore D	min 75
Compressive strength (with Quartz Sand no. 10)	kg/cm^2	800 - 900
Flexural strength (with Quartz Sand no. 10)	kg/cm^2	300 - 400

LAPOX® PROCOAT

UV AND ABRASION RESISTANT
PU COATING

Polyurethane coating is a tough protective paint applied on exterior and interior structures that are exposed to extreme weather such as scorching heat, gusty winds and pouring rain. Lapox® Procoat is a two-component acrylic polyol and aliphatic isocyanate based polyurethane coating designed to protect the base waterproof layer as well as decorate the substrate.

Benefits

- abrasion resistant
- dirt resistant
- provides glossy effect
- temperature reducing coating
- UV resistant
- weather resistant

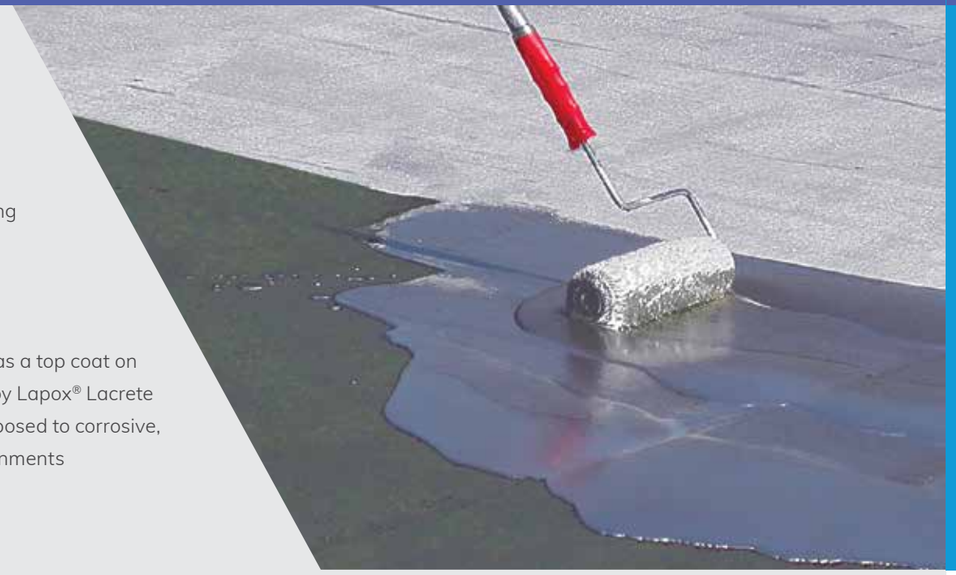
Applications

Lapox® Procoat can be used as a top coat on

- the terraces waterproofed by Lapox® Lacrete
- steel and other surfaces exposed to corrosive, marine and chemical environments

Packaging unit

5 litre



Available shades

AD Grey, White, Black, Opaline Green, Light Brown

Golden Yellow, Sky Blue, PO Red, Dark Violet, Light Grey, Sea Green

Coverage*

120 - 160 sq ft per kg (30 - 40 microns)

*Coverage may vary depending upon the surface conditions.

Application process

1

Ensure that the substrate is dry, clean and free of contaminants such as oil and grease. In case of old epoxy or PU coating, ensure substrate to be sufficiently roughened prior to coating.

2

Stir the resin and hardener separately. Mix hardener gradually into the resin under continuous stirring in a ratio of 4 : 1 (resin : hardener) with the help of a power driven stirrer until a homogeneous paste is achieved.

3

Apply Lapox® Lacrete as primer and waterproof coat.

4

Lapox® Procoat can be applied in 1 or 2 coats after 8 hours of Lapox® Lacrete application depending upon the substrate.

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

Technical details

Properties	Lapox® Procoat
Composition	Acrylic polyol resin with isocyanate hardener with suitable pigmentation
Colour	Available in various shades
Gloss	Glossy
Volume solids	Approximately 45%
Mixing ratio	4 : 1 (resin : hardener)
Pot life at 25°C	6 - 8 hours
Drying time at 30°C	Surface dry: 1 hour
	Hard dry: 16 hours
	Full cure: 7 days
Hardener	Use Lapox® Procoat hardener only
Recommended DFT/ coat	30 - 40 microns
Flash point	Resin: 24°C
	Hardener: 24°C

LAPOX® ULTRABOND

SOLVENT CEMENT FOR PIPES AND FITTINGS

Lapox® Ultrabond is a superior quality solvent cement for joining PVC, UPVC and CPVC pipes and fittings which makes strong, waterproof and durable joints. None of the solvent-cements are interchangeable, as each one is specific for its pipe.

Benefits

- fast setting
- high strength
- low VOC
- strong, waterproof and durable joint

Applications

PVC solvent

Pipes and fittings used for

- irrigation
- potable water
- sewers
- suitable for 4” diameter schedule 40 pipe

CPVC solvent

CPVC pipes and fittings used for cold and hot water up to a maximum of 180°F (82°C) installed in

- commercial spaces
- industrial premises • mobile homes
- residential complexes
- suitable for 0.5” - 2” pipes and fittings
- conforms to ASTM F 493 standard

UPVC solvent

UPVC pipes and fittings used for

- conduits
- irrigation
- potable water
- sewers
- suitable for 6” schedule 40 pipes and 4” schedule 80 pipes
- conforms to ASTM D 2564 standard

Packaging units

PVC

20 ml	50 ml	100 ml	200 ml	500 ml	1 litre

UPVC and CPVC

20 ml	50 ml	100 ml	200 ml

Application process

1. Use the specific solvent cement according to type of the pipe.

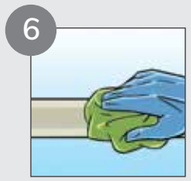
2. Shake and stir the content well before use.

3. Cut the pipe in length; ensure that the cut edges are made smooth using sand paper.

4. Apply Lapox® Ultrabond solvent coat to the outer surface of the fitting with the help of a soft brush. Assemble the cemented parts immediately while the solvent coat is still wet.

5. Twist the pipe fully into the fitting by a quarter turn to evenly distribute the solvent coat. Strengthen the joint by holding it for a minimum of 60 seconds.

6. Allow the joint to cure sufficiently before handling. Wipe off the excess solvent with a cloth.



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

Technical details

Properties	PVC	CPVC	UPVC
Colour	Clear	Yellow	Clear
Specific gravity at 25˚C	0.85	0.96	0.9
Brookfield viscosity at 25˚C	minimum 120 cPs	minimum 1,300 cPs	minimum 600 cPs
Hydrostatic burst strength (resistant to rupture)	410 psi	440 psi @ 23˚C	440 psi

LAPOX® ULTRASEAL

ULTIMATE STRENGTH EPOXY PUTTY

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
- bond can withstand temperature of up to 120°C
- can be moulded in different shapes
- can be sanded, drilled and painted
- creates rock hard sealing bond
- high tensile and shear strength
- no shrinkage
- ready for use within one to two hours of application
- resistant to most commonly used solvents

Applications

General

- bonding metals, masonry, brick, glass rubber, fibreglass, composite, stone, marble and many rigid plastic
- fixing loose screws on walls
- joining broken ceramic, wooden and household items
- sealing leakages of water pipelines and storage tanks

Automobile

- filling dents and cracks
- sealing leakages in radiators, fuel tanks, silencers and metal strips

Electrical

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

Civil Engineering

- filling and repairing ceramics
- sealing water supply mains, concrete and sewage pipelines

Packaging units

Fast setting (available in jar pack)

25 g | 60 g

General purpose

1 kg

Application process to stop plumbing leakage

1

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.

2

Mix 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.

3

Apply homogeneous 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.

4

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 manufacture.

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

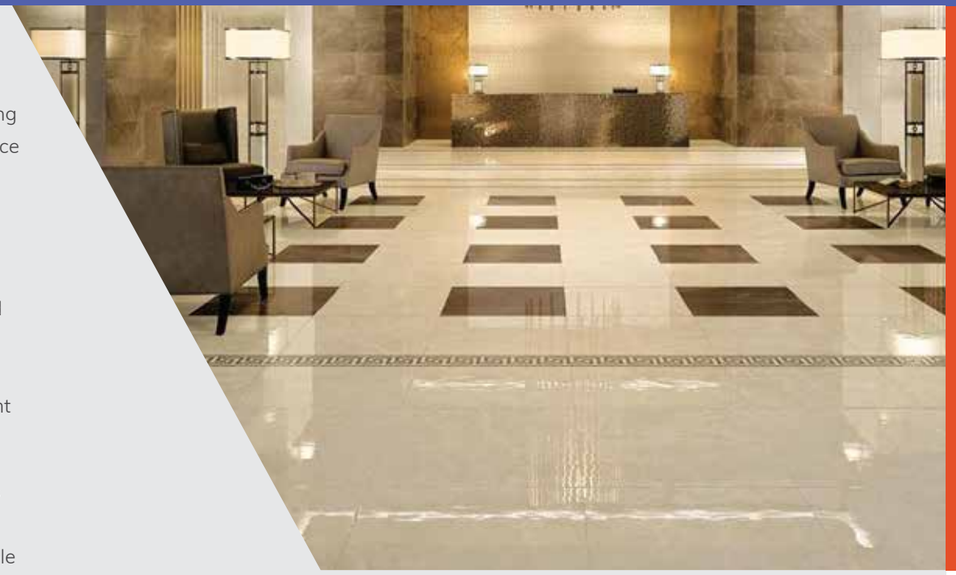
Technical details

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 hours curing	kg/cm^2	min 70
Hardness after 24 hours curing	shore D	min 80
Water absorption	%	max 0.5
Compressive strength	kg/cm^2	min 400
Di-Electric strength at RT	KV/mm	min 10

LAPOX® GRANITO

EPOXY SYSTEM FOR COATING AND CRACK FILLING OF MARBLE

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.



Benefits

- clear and transparent coating
- enhances natural appearance of marble and granite
- compatible with pigments
- free from solvent and unpleasant odour
- low viscosity results in good penetration into cracks
- strengthens marble
- water and chemical resistant

Applications

- embellishing stone surfaces
- coating and crack filling in natural marble, Italian marble and granite
- stone casting

Packaging units

1.25 kg	5 kg	10 kg	250 kg

Coverage*

100 - 110 sq ft per kg

*Coverage may vary depending upon the surface conditions.

Application process

1

Use '0' number grinder to polish and clean the marble slab. Wipe off the marble surface with a clean cloth. Ensure that the surface is free of dirt, oil, grease and moisture. Inadequately treated substrates may not show satisfactory results.

2

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

3

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.

4

Allow it to cure in daylight for 24 hours. Use grinding disc from 1 – 5 to polish the treated slab.

5

Faster productivity can be achieved if curing is done at a higher temperature (40°C - 60°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® Granito JR 150 | JH 350
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 (100 g mixed mass)	minutes	35 - 45
Surface dry at 42 ± 1°C (for 200 µ film)	hours	1.5 - 2
Touch dry at 42 ± 1°C (for 200 µ film)	hours	2.5 - 3
Water absorption (24 hours immersion)	%	max 0.4
Hardness after 24 hours curing	shore D	min 70
Optical clarity	visual	excellent
Tg, RT curing for 24 hours	°C	50 - 55

HVAC

Polygrip® HVAC is a special synthetic adhesive, which is best suited for duct systems and duct-liners for commercial, industrial and residential insulation systems. Polygrip® HVAC comes in three variants - Unique, Classic and ECCO.

Benefits

- excellent adhesion to a variety of substrates
- excellent bond strength
- long lasting and durable bonding
- mild smell
- no benzene
- superior water resistant

Applications

- AC ducting
- acoustic insulation
- chilled water piping
- under deck insulation*

Packaging units

5 litre	30 litre

* Mechanical fasteners are recommended for under deck insulation.

Application process

1

Ensure the surface is completely clean, dry and free of oil, grease and foreign particles.

2

Stir the adhesive well before use.

3

Apply Polygrip® HVAC adhesive range on both substrates uniformly with the help of a brush or a spreader.

4

Leave it for 10 - 15 minutes to become touch dry so that no air pockets are there.

5

Now bond the substrates with a firm and uniform pressure.

6

Optimum bond strength is developed after 24 hours in ambient condition.

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	Typical range
Polygrip® HVAC UNIQUE		
Appearance	--	Brown viscous liquid
Density at 30°C	g/ml	0.83 - 0.89
Viscosity at 30°C	cPs	1,800 - 2,600
Temperature resistance	°C	- 20 to + 96
*Coverage	m^2/litre	5.2
Polygrip® HVAC CLASSIC		
Appearance	--	Yellow viscous liquid
Density at 30°C	g/ml	0.82 - 0.86
Viscosity at 30°C	cPs	1,050 - 1,500
Temperature resistance	°C	- 20 to + 85
*Coverage	m^2/litre	6
Polygrip® HVAC ECCO		
Appearance	--	Light yellow
Density at 30°C	g/ml	0.80 - 0.85
Viscosity at 30°C	cPs	1,200 - 1,400
Temperature resistance	°C	- 20 to + 85
*Coverage	m^2/litre	4.70

*Coverage is calculated using spreader under ideal laboratory conditions with single side application on a smooth non-absorbent substrate. It may vary with the type of substrate and ambient conditions.

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