

Ambient cure high viscous adhesive system

Description Lapox Rapid and Clear is two component modified, viscous, rapid cure and fast setting epoxy adhesive system. When both components are mixed in recommended ratios and cured appropriately at room temperature, an excellent bond strength can be achieved with most of the substrates including glass, metals, plastics, wood, textile and natural stones.

Applications Versatile material for most house hold and industrial applications

Advantages
 Bonding on wide variety of substrates
 Clear film properties
 Fast setting
 Water and chemical resistant

Typical specifications

Test	Unit	Reference	Value	
			Resin	Hardener
Description	-	Visual	Clear, viscous liquid	Clear, viscous liquid
Viscosity at 25°C ¹	m Pas	ASTM D2196	60,000 - 75,000	5,000 - 13,000
Colour	APHA	ASTM D1209	Max 70	Max 80
Density	g/cc	ASTM D792	1.05 - 1.15	1.02 - 1.18

¹Viscosity by Brookfield viscometer

Mix specifications

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	w/w	-	100 : 100
Mix viscosity at 25°C	m Pas	ASTM D2196	30,000 - 35,000
Pot life ¹	Minutes	ASTM D2471	3 - 7
Peak exotherm temperature ²	°C	ASTM D2471	Max 60
Surface dry [*]	Minutes	ASTM D5895	5 - 7
Touch dry [*]	Minutes	ASTM D5895	10 - 20
Hard dry [*]	Minutes	ASTM D5895	50 - 60

¹Pot life of 10 g mix mass at 25 ± 1°C in plastic disposable cup

²Total 10 g mix mass in plastic disposable cup at 25°C

^{*}Drying time of 200 micron film on glass plate at 25°C

After cure specifications

Test	Unit	Reference	Value
Lap shear strength at 25°C ¹	kg/cm ²	ASTM D1002	Min 80

¹Lap shear strength on prepared aluminum strips after 24 hours curing

Processing

Surface preparation: The adherents must be thoroughly degreased with a good degreasing solvent (e.g. toluene, acetone trichloroethylene) and abraded with coarse emery paper or chemically etched. Inadequately pre-treated substrates may not bond satisfactorily.

Application: The mixed mass is applied by brush or spatula on the surface to be adhered. The mix must be used within its pot life.

Curing: Curing normally takes place at room temperature within about 24 hours depending on the ambient temperature but may be accelerated by the application of heat.

Packaging

Lapox Rapid and Clear is available in 6 g, 12 g, 36 g, 90 g and 180 g tube packs. Other packing may be considered on request.

LAPOX[®] RAPID AND CLEAR

Technical Data Sheet | Polymers Business



Storage and handling	Lapox Rapid and Clear should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf life of two years, if stored in its original container between 2°C and 40°C away from humidity and excessive heat.
Safety	Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox Rapid and Clear for detailed safety instructions.
Spills and disposal	In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.
Contact	E-mail: support_polymers@atul.co.in Website: www.atul.co.in
Note	Lapox [®] is a registered trademark of Atul Ltd.

Disclaimer: The information contained herein is for information purposes only. While enough care is taken in disclosing the information, users of this information are advised to cross-check the same depending upon use | application. Atul Ltd does not give any assurance or warranty or guarantee in regard to the accuracy or completeness of the information and no claim or liability will be accepted or entertained in regard thereto. Atul Ltd makes no warranty of any kind, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or performance or usage of trade.