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Ambient cure high viscous adhesive system

Description	Lapox Ultra is two component modified, viscous 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, laminates, wood, textile and natural stones. Faster productivity can be achieved, if curing is performed at higher temperature between 40°C and 60°C. Curing at higher temperature is recommended to achieve optimum bond strength.				
Applications	Artificial jewellery and jewel stone fixing Automobile components Ceramic works Construction Electrical components General engineering components Souvenirs and handicrafts Sports goods				
Advantages	Adequate pot life Excellent electrical insulation properties High bond strength High mechanical strength even in dynamic conditions Thermally stable and suitable to perform in extreme conditions Water and chemical resistant				
Typical specifications	Test	Unit	Reference	Decin	Value
	Description	-	Visual	Resin Off-white, opaqu viscous liquid	Hardener le, Clear, yellowish to brownish, viscous liquid
	Viscosity at 25°C1	m Pas	ASTM D2196	28,000 - 42,000	28,000 - 40,000
	Colour	GS	ASTM D1544	-	Max 8
	Density	g/cc	ASTM D792	1.06 - 1.17	0.92 - 0.98
	¹ Viscosity by Brookfield v	iscometer			
Mix specifications	Test		Unit	Reference	Value
	Mixing ratio (resin : hardener)		w/w	-	100 : 80
	Mix viscosity at 25°C		m Pas	ASTM D2196	30,000 - 35,000
	Pot life ¹		Minutes	ASTM D2471	75 - 90
	Peak exotherm temperature ²		°C	ASTM D2471	Max 60
	Surface dry*		Minutes	ASTM D5895	120 - 140
	Touch dry*		Minutes	ASTM D5895	300 - 320
	Hard dry*		Minutes	ASTM D5895	520 - 540
	¹ Pot life of 100 g mix mass at 25 ± 1°C in plastic disposable cup by 'Gardco' gel timer ² Total 100 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					
After cure specifications	Test		Unit	Reterence	Value
After cure specifications	Test Lap shear strength	at 27°C	Unit kg/cm ²		Value Min 120

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Processing	Surface reparation: 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 Ultra is available in 6.5 g, 13 g, 36 g, 90 g and 180 g tube packs as well as 450 g, 900 g and 1.8 kg bottles and 9 kg, 45 kg and 90 kg HDPE carboys.
Storage and handling	Lapox Ultra 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 Ultra 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.

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