LAPOX[®] CLEARSET

Technical Data Sheet | Polymers Business

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Ambient cure high viscous adhesive system

Description	Lapox Clearset is two component modified, viscous epoxy adhesive system. When both components are mixed in recommended ratio and cured appropriately at room temperature, excellent bond strength can be achieved with most of the substrates including glass, metals, plastics, wood, textile, and natural stones. Faster productivity can be achieved if curing is performed at higher temperature, i.e. 40-60°C. Curing at higher temperature is recommended to achieve optimum bond strength.				
Applications	Zari Fixing in Textiles Electronic speakers Marble joining Artificial jewelry & jewel stone fixing Souvenirs and handicrafts				
Advantages	Long pot life High bond strength Water and chemical resistant High mechanical strength even in dynamic conditions Thermally stable and suitable to perform in extreme conditions				
Typical specifications	Teet	Unit	Reference	Value	
	Test			Resin	Hardener
	Description	-	Visual	Clear, viscous liquid	Clear, viscous liquid
	Viscosity at 25°C1	m Pas	ASTM D2196	60,000 - 75,000	30,000 - 40,000
	Colour	APHA	ASTM D1209	Max 70	Max 80
	Density	g/cc	ASTM D792	1.05 - 1.15	1.02 - 1.08
Mix specifications	Test		Unit	Reference	Value
	Mixing ratio (resin : hardener)		w/w	-	100 : 100
	Mix viscosity at 25°C		m Pas	ASTM D2196	35,000 - 40,000
	Pot life ¹		Minutes	ASTM D2471	60 - 75
	Peak exotherm temperature ²		°C	ASTM D2471	Max 45
	Surface dry*		Minutes	ASTM D5895	80 - 100
	Touch dry*		Minutes	ASTM D5895	240 - 260
	Hard dry*		Minutes	ASTM D5895	490 - 510
	¹ Pot life of 10 g mix mass at 25 ± 1°C in plastic disposable cup ² Total 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 a	t 25°C1	kg/cm ²	ASTM D1002	Min 120
Processing	 ¹Lap shear strength on prepared aluminum strips after 24 hours curing 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 mixed 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.				

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Packaging	Lapox Clearset is available in 0.5, 1, 2, and 10kg packs. Other packing may be considered on request.
Storage and handling	Lapox Clearset 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 Clearset 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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