LAPOX[®] MULTIGRIP

Technical Data Sheet | Polymers Business



Ambient cure high viscous adhesive system

Description	Lapox Multigrip 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, reactive plastics, 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 Bengals Ceramic works Souvenirs and handicrafts				
Advantages	Good electrical insulating properties 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	Value	
		0		Resin	Hardener Clear, yellowish-brown,
	Description	-	Visual	Clear, viscous liquid	viscous liquid
	Viscosity at 25°C ¹	m Pas	ASTM D2196	20,000 - 30,000	30,000 - 40,000
	Colour	APHA	ASTM D1209	Max 100	-
	Colour	GS	ASTM D1544	-	Max 8
	Density	g/cc	ASTM D792	1.05 - 1.15	0.90 - 0.96
	¹ Viscosity by Brookfield vi	scometer			
Mix specifications	Test		Unit	Reference	Value
	Mixing ratio (resin :	hardener)	w/w	-	100 : 80
	Mix viscosity at 25°C		m Pas	ASTM D2196	25,000 - 30,000
	Pot life ¹		Minutes	ASTM D2471	45 - 60
	Peak exotherm temperature ²		°C	ASTM D2471	Max 45
	Surface dry*		Minutes	ASTM D2471	120 - 140
	Touch dry*			ASTM D5895	300 - 320
	-		Minutes		
	Hard dry*MinutesASTM D5895530 - 5501Pot life of 100 g mix mass at 25 ± 1°C in plastic disposable cup by 'Gardco' gel timer2Total 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	Test		Unit	Reference	Value
	Lap shear strength a	t 25°C ¹	kg/cm ²	ASTM D1002	2 Min 80
	¹ Lap shear strength on prepared aluminum strips after 24 hours curing				

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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 Multigrip is available in 1.8 kg bottles, 9 kg HDPE jerry cans and 63 kg HDPE carboys. Other packing may be considered on request.
Storage and handling	Lapox Multigrip 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 one year, 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 Multigrip 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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