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Ambient cure low viscous epoxy system

Description	Lapox Bristle Bond is two component modified, epoxy adhesive system. When both components are mixed in recommended ratio and cured appropriately at room temperature, an excellent strength can be achieved for fixing ferrule to bristles in paint brush industries. Faster productivity can be achieved, if curing is performed at higher temperature between 40°C and 60°C.
Applications	Paint brush industries for fixing ferrule to bristles
Advantages	Excellent solvent and water resistance compared to shellac bonding Excellent mechanical strength and electrical insulation Resistance to most chemicals

Typical specifications

Test	Unit	Reference	Value		
			Resin	Hardener	
Description	-	Visual	Clear liquid	Clear liquid	
Viscosity at 25°C1	m Pas	ASTM D2196	3,000 - 4,000	5 - 15	
Colour	AHPA	ASTM D1209	Max 100	-	
Colour	GS	ASTM D1544	-	Max 1	
Density	g/cc	ASTM D792	1.05 - 1.15	0.90 - 0.96	
1Viscosity by Brookfield vis	cometer				

Value

¹Viscosity by Brookfield viscometer

Mix specifications Unit Value Test Reference Mixing ratio (resin : hardener) 100:10 w/w _ Mix viscosity at 25°C m Pas ASTM D2196 300 - 500 Pot life1 40 - 55 Minutes ASTM D2471 Peak exotherm temperature² °С ASTM D2471 Max 75 Surface dry* ASTM D5895 230 - 250 Minutes Touch dry* Minutes **ASTM D5895** 620 - 640 Hard dry* Minutes ASTM D5895 820 - 840 ¹Pot life of 100 g mix mass at 25 ± 1°C in plastic disposable cup by 'Gardco' gel timer ²Total 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 at 25°C kg/cm² ASTM D1002

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

80 - 100

LAPOX[®] BRISTLE BOND

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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 poured into the metal ferrule for bonding with bristles. 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 Bristle Bond is available in 1.1 kg and 5.5 kg bottles, and 33 kg HDPE carboys. Other packing may be considered on request.
Storage and handling	Lapox Bristle Bond 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 Bristle Bond 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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