Technical Data Sheet | Polymers Business

atul

Ambient cure epoxy coating system

Description	Lapox Metalam - B is two component modified, epoxy coating system. When both components are mixed in recommended ratios and cured appropriately at room temperature, an excellent coating or lamination can be achieved on most of the substrates including glass, metals, plastics, wood, paper stickers 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	Buckles Coating and lamination of articles Key-chain Metal gift articles Paper stickers PVC								
Advantages	Good colour stability Good flexibility and adhesion High gloss and clarity Thermally stable and suitable to perform in extreme conditions Water and chemical resistant								
Typical specifications	Test	Unit	Reference	Value					
					Resin		Harde	-	
	Description	-	Visual		Clear, liquid	transparent	Clear, liquid	transparent	
	Viscosity at 25°C ¹	m Pas	ASTM D21	,		300 - 600			
	Colour	APHA	ASTM D12	.09 Max 60		-			
	Colour	GS	ASTM D15	544	-		Max 1		
	Density	g/cc	ASTM D79	92	1.00 -	1.20	0.95 -	1.00	
	¹ Viscosity by Brookfield viscometer								
Mix specifications	Test		Unit		Reference		Value		
	Mixing ratio (resin : hardener)		w/w	w/w -				100 : 50	
	Mix viscosity at 25°C		m Pas	m Pas ASTN		TM D2196		500 - 800	
	Pot life ¹		Minutes	es ASTM E		02471 20 -		35	
	Peak exotherm tempe	°C	ASTM D2471		2471	Max 75			
	Surface dry*		Hours	A	ASTM D5895		150 - 180		
	Touch dry*		Hours	-lours A		ASTM D5895		230 - 260	
	Optical clarity		Visual	-	-		Excellent		
	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	Test			Unit		Reference		Value	
	Water absorption (24 hours immersion)			%		ASTM D670-63		Max 0.5	
	Hardness of 10 mm casting (after 24 hours)			Shore D		ISO/ R868		60 - 65	

LAPOX[®] METALAM - B

Technical Data Sheet | Polymers Business



Processing	Surface preparation: The adherents must be thoroughly degreased with a good degreasing solvent (e.g. toluene, acetone trichloroethylene). Ensure the surface is free form the dirt, oil, grease and moisture. Wipe off the surface with clean cloth. Inadequately pre-treated substrates may not yield satisfactory results.					
	Application: The mixed mass is applied by brush, spatula or through dispensing bottle on the surface to be coated. 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 Metalam - B is available in 1.5 Kg bottles and 7.5 kg HDPE jerry cans. Other packing may be considered on request.					
Storage and handling	Lapox Metalam - B 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 Metalam - B 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.