

Lapox Metalam - B

Ambient cure epoxy coating system

Product Information

Product Name	Lapox Metalam - B
Brand	Lapox (Atul Ltd)
Type	Two-component modified epoxy coating system
Pack Sizes	1.5 kg bottles, 7.5 kg HDPE jerry cans
Shelf Life	12 months in original container at 2-40°C

Description

Lapox Metalam - B is a two-component modified epoxy coating system. When mixed and cured at room temperature, it provides excellent coating or lamination on glass, metals, plastics, wood, paper stickers, and natural stones. Faster productivity can be achieved by curing at 40-60°C.

Applications & Advantages

Applications	Advantages
Buckles, Key-chains, Metal gift articles	Good colour stability
Coating and lamination of articles	Good flexibility and adhesion
Paper stickers, PVC	High gloss and clarity
	Thermally stable, performs in extreme conditions
	Water and chemical resistant

Typical Specifications — Resin & Hardener

Property	Test	Unit	Resin	Hardener
Description	Visual	—	Clear, transparent liquid	Clear, transparent liquid
Viscosity @ 25°C	ASTM D2196	mPas	800 - 1,200	300 - 600
Colour	ASTM D1209	APHA	Max 60	—
Colour	ASTM D1544	GS	—	Max 1
Density	ASTM D792	g/cc	1.00 - 1.20	0.95 - 1.00

Mix Specifications

Property	Test	Unit	Value
Mixing Ratio (R:H)	—	w/w	100 : 50
Mix Viscosity @ 25°C	ASTM D2196	mPas	500 - 800
Pot Life (100 g @ 25°C)	ASTM D2471	Minutes	20 - 35
Peak Exotherm	ASTM D2471	°C	Max 75
Surface Dry	ASTM D5895	Hours	150 - 180
Touch Dry	ASTM D5895	Hours	230 - 260
Optical Clarity	Visual	—	Excellent

After Cure Specifications

Property	Test	Unit	Value
Water Absorption (24 h immersion)	ASTM D670-63	%	Max 0.5
Hardness (10 mm casting, 24 h)	ISO/R868	Shore D	60 - 65

Processing Guidelines

1. Surface Prep	Degrease thoroughly with solvent (toluene, acetone). Ensure surface is free from dirt, oil, grease and moisture.
2. Application	Apply mixed mass by brush, spatula, or dispensing bottle. Use within pot life.
3. Curing	Room temperature: ~24 hours. Accelerate with heat (40-60°C) for faster cure.
4. Storage	Cool, dry place in sealed container. Avoid direct sunlight and excessive heat.
5. Safety	Wear PPE. Avoid contact with eyes/skin. Wash off with soap and warm water. Refer to SDS.