

Lapox Ultra

Ambient cure high viscous epoxy adhesive system

Product Information

Product Name	Lapox Ultra
Brand	Lapox (Atul Ltd)
Type	Two-component modified, viscous epoxy adhesive system
Pack Sizes	6.5 g, 13 g, 36 g, 90 g, 180 g tubes 450 g, 900 g, 1.8 kg bottles 9 kg, 45 kg, 90 kg HDPE carboys
Shelf Life	2 years in original container at 2-40°C

Description

Lapox Ultra is a two-component modified, viscous epoxy adhesive system. Provides excellent bond strength with glass, metals, laminates, wood, textile and natural stones. Faster productivity at 40-60°C.

Applications & Advantages

Applications	Advantages
Artificial jewellery & jewel stone fixing	Adequate pot life (75-90 min)
Automobile components, Ceramic works	Excellent electrical insulation
Construction, Electrical components	High bond strength
General engineering, Sports goods	High mechanical strength in dynamic conditions
Souvenirs and handicrafts	Thermally stable, water & chemical resistant

Typical Specifications — Resin & Hardener

Property	Test	Unit	Resin	Hardener
Description	Visual	—	Off-white, opaque, viscous	Clear yellowish to brownish, viscous
Viscosity @ 25°C	ASTM D2196	mPas	28,000-42,000	28,000-40,000
Colour	ASTM D1544	GS	—	Max 8
Density	ASTM D792	g/cc	1.06-1.17	0.92-0.98

Mix Specifications

Property	Test	Unit	Value
Mixing Ratio (R:H)	—	w/w	100 : 80
Mix Viscosity @ 25°C	ASTM D2196	mPas	30,000 - 35,000
Pot Life (100 g @ 25°C)	ASTM D2471	Minutes	75 - 90
Peak Exotherm	ASTM D2471	°C	Max 60
Surface Dry	ASTM D5895	Minutes	120 - 140
Touch Dry	ASTM D5895	Minutes	300 - 320
Hard Dry	ASTM D5895	Minutes	520 - 540
Lap Shear Strength @ 27°C	ASTM D1002	kg/cm²	Min 120

Processing Guidelines

1. Surface Prep	Degrease with solvent (toluene, acetone, trichloroethylene). Abrade with coarse emery paper or chemically etch.
2. Application	Apply mixed mass by brush or spatula. Use within pot life.
3. Curing	Room temperature: ~24 h. Accelerate with heat (40-60°C) for optimum bond strength.
4. Storage	Cool, dry place in sealed container. Avoid direct sunlight. Shelf life: 2 years.
5. Safety	Wear PPE. Avoid contact with eyes/skin. Wash off with soap and warm water. Refer to SDS.