

Lapox Fillo

Ambient cure high viscous filled epoxy adhesive system

Product Information

Product Name	Lapox Fillo
Brand	Lapox (Atul Ltd)
Type	Two-component modified, thixotropic epoxy adhesive system
Pack Sizes	1.8 kg bottles, 9 kg HDPE jerry cans, 45 kg HDPE carboys
Shelf Life	1 year in original container at 2-40°C

Description

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

Applications & Advantages

Applications	Advantages
Joint filling system for flooring	Good electrical insulating properties
Potting system for small electronics	High bond strength
Wood industries	Mechanical strength in dynamic conditions
	Thermally stable, water & chemical resistant

Typical Specifications — Resin & Hardener

Property	Test	Unit	Resin	Hardener
Description	Visual	—	Opaque-white, viscous liquid	Brownish, viscous liquid
Viscosity @ 25°C	ASTM D2196	mPas	15,000-25,000	15,000-25,000
Colour	Visual	—	Opaque-white	Opaque-brown
Density	ASTM D792	g/cc	1.55-1.65	1.30-1.40

Mix Specifications

Property	Test	Unit	Value
Mixing Ratio (R:H)	—	w/w	100 : 80
Mix Viscosity @ 25°C	ASTM D2196	mPas	18,000 - 23,000
Pot Life (100 g @ 25°C)	ASTM D2471	Minutes	65 - 85
Peak Exotherm	ASTM D2471	°C	Max 65
Surface Dry	ASTM D5895	Minutes	70 - 90
Touch Dry	ASTM D5895	Minutes	170 - 190
Hard Dry	ASTM D5895	Minutes	270 - 290

After Cure Specifications

Property	Test	Unit	Value
Lap Shear Strength @ 25°C (24 h)	ASTM D1002	kg/cm²	Min 100
Lap Shear Strength (7 days)	ASTM D1002	kg/cm²	120 - 140
Hardness (24 h, 4 mm cast)	ASTM D2240	Shore D	40 - 45
Hardness (7 days)	ASTM D2240	Shore D	70 - 75
Water Absorption @ 25°C	ASTM D670-63	%	Max 0.4
Sanding Time (Application Test)	—	Hours	3 - 4

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: 1 year.
5. Safety	Wear PPE. Avoid contact with eyes/skin. Wash off with soap and warm water. Refer to SDS.