

Lapox Ultra Fast

Cyanoacrylate — Multipurpose instant adhesive, one component

Product Information

Product Name	Lapox Ultra Fast
Brand	Lapox (Atul Ltd)
Type	One component, solvent free, instant setting cyanoacrylate adhesive
Chemical Type	Ethyl cyanoacrylates
Appearance	Clear, transparent, colourless liquid
Cure System	Humidity (moisture activated)
Pack Sizes	20 ml HDPE bottles
Shelf Life	9 months at 20-22°C in sealed container

Description

Lapox Ultra Fast is a one-component, solvent-free, nearly instant setting room temperature curing adhesive. It bonds non-porous materials and those containing minute traces of water. Compatible with plastics, wood, metals, glass, rubber, etc. Easy to dispense from squeeze-tube packaging. Optimal for bonding small parts and adaptable to high speed assembly operations.

Advantages

- Rapid curing (less than a minute) at room temperature, no heat required
- Bond forms with only contact pressure, no clamping required
- Bonds metals, rubbers, most plastics, ceramics, glass, wood, leather, PVC
- Excellent wetting — no solvent evaporation or hazardous vapour emission
- Good resistance to weathering, gasoline, kerosene & various oils
- No mixing required, spreads easily, no special pretreatments for most surfaces
- Cost effective — minimal amounts needed for strong bonds
- Ideal for high speed production

Typical Properties

Property	Unit	Value
Chemical Type	—	Ethyl cyanoacrylates
Appearance	—	Clear transparent colourless liquid
Specific Gravity @ 25°C	—	1.04 - 1.06
Viscosity	mPas	Max 5
Flash Point	°C	84
Solubility	—	Nitro methanol, Acetone, Dimethylformamide
Refractive Index	—	1.49 (± 0.03)
Gap Fill	mm	0.05
Service Temperature	°C	-55 to 82

Cure Speed & Lap Shear Strength

Property	Substrate	Value
Cure Speed	MS-MS joint	≤ 8 seconds
Cure Speed	Al-Al joint	≤ 8 seconds
Cure Speed	Acrylic-Acrylic	< 10 seconds
Cure Speed	PVC-PVC	< 5 seconds
Lap Shear Strength (ASTM D1002)	After 10 min	65 kg/cm²
Lap Shear Strength (ASTM D1002)	After 1 hour	90 kg/cm²
Lap Shear Strength (ASTM D1002)	After 24 hours	130 kg/cm²
Lap Shear Strength (ASTM D1002)	Full cure	100 kg/cm²

Processing Guidelines

1. Surface Prep	Degrease with solvent (toluene, acetone, trichloroethylene). Abrade with coarse emery paper or chemically etch for metal.
2. Apply	Apply sparingly to one surface (one drop is usually sufficient). Bring components together quickly, correctly aligned.
3. Pressure	Apply sufficient pressure to spread adhesive into a thin film. Do not disturb until cured.
4. Activator	For difficult or porous surfaces, activator is recommended.
5. Primer	For polypropylene, polyethylene, PTFE or silicone — prime with polyolefin primer first.

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6. Storage	Store at 20-22°C in sealed container. Refrigerate for longer life; allow to reach room temp before use. Discard if cloudy/milky.
7. Safety	Wear gloves (skin moisture causes bonding). If skin bonds, wash with soap water and slowly pry apart. Refer to SDS.

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