

B8X-401 High-Strength Instant Adhesive

B8X-401 is a premium-grade, low-viscosity ethyl cyanoacrylate instant adhesive formulated for high-speed production and versatile material compatibility. Its exceptional wettability and rapid cure profile make it ideal for precision bonding in tight-tolerance assemblies, while maintaining robust mechanical performance across a wide service temperature range.

Key Technical Specifications

Parameter	Value
Viscosity	100 cP
Appearance	Clear
Gap Fill	0.005 in. (0.15 mm)
Fixture Time (steel)	~5 seconds
Shear Strength	2,900 psi (20 N/mm ²)
Service Temperature	-40°C to +120°C
Packaging	20g / 50g / 500g / 1000g

Performance Advantages

- **Rapid Handling Strength:** Achieves functional bond strength in seconds, accelerating throughput.
- **Superior Adhesion Profile:** Bonds effectively to:
- **Challenging Surface Compatibility:** Proven adhesion on acidic or electroplated surfaces (e.g., chromated finishes).
- **Low Viscosity for Precision Application:** Excellent capillary flow into micro-gaps ensures uniform, void-free bonds.
- **Thermal Stability:** Maintains structural integrity from -40°C to 120°C , suitable for both indoor and under-hood applications.

Typical Applications

- **Electronics:** Securing small components, coil tacking, sensor mounting
- **Automotive:** Interior trim assembly, emblem bonding, rubber gasket fixation
- **Consumer Appliances:** Housing repair, control panel attachment, decorative element bonding
- **Industrial Maintenance:** Emergency repairs of metal/plastic parts with minimal downtime
- **Craft & DIY:** Wood joinery, leatherwork, model building, and hobbyist projects

Application Guidelines

- Surfaces must be clean, dry, and free of oil, grease, or release agents.
- For low-surface-energy substrates (e.g., PP, PE), use a compatible primer to enhance bond performance.

- Apply in a well-ventilated area; avoid skin and eye contact.
- Store unopened containers in a cool, dry place (<25°C) to maximize shelf life.

Why Choose B8X-401?

Engineered for speed, strength, and versatility—B8X-401 delivers consistent, industrial-grade performance across diverse manufacturing and repair scenarios. Whether you're assembling micro-electronics or repairing industrial fixtures, B8X-401 provides the reliability you demand with the efficiency you require.

Available in multiple package sizes to support R&D prototyping, workshop use, and high-volume production lines.

Request a sample or technical datasheet today to experience the B8X difference.