

B8X-402 High-Performance Instant Adhesive

B8X-402 is a next-generation instant adhesive formulated for mission-critical bonding in high-temperature environments. Combining ultra-fast fixture speed with extended thermal endurance (up to 135°C), it delivers consistent, durable performance on both standard and challenging substrates—including low-surface-energy plastics and elastomers that typically resist conventional adhesives.

Designed for engineers and manufacturers who demand reliability under stress, B8X-402 bridges the gap between speed, strength, and environmental resilience.

Key Technical Specifications

Parameter	Value
Viscosity	100 cP
Appearance	Clear
Gap Fill	0.005 in. (0.15 mm)
Fixture Time (steel)	3–10 seconds
Shear Strength	2,900 psi (20 N/mm ²)
Service Temperature	–40°C to +135°C
Packaging	20g / 500g / 1000g

Performance Highlights

- **Extended High-Temperature Resistance:** Stable continuous service up to **135°C**—ideal for under-hood, power electronics, and near-engine applications.
- **Superior Adhesion to Difficult Substrates:** Bonds reliably to **rubber, TPE, EPDM, nylon, ABS**, and other low-energy or chemically inert materials.
- **Rapid Processing:** Achieves handling strength in **as little as 3 seconds**, supporting high-throughput assembly lines.
- **Consistent Mechanical Integrity:** Maintains >90% of bond strength after thermal cycling and long-term exposure to elevated temperatures.
- **Low Viscosity for Precision:** Excellent flow into micro-gaps ensures uniform coverage without excess squeeze-out.

Typical Applications

- **Automotive:** Sensor mounting, gasket retention, trim bonding in high-heat zones
- **Electronics:** Bonding components near heat sources (e.g., power modules, LED drivers)
- **Industrial Equipment:** Assembly of fluid handling parts, pneumatic fittings, and wear-resistant components
- **Aerospace & Defense:** Interior fixtures requiring thermal stability and vibration resistance

- **Maintenance & Repair:** Fast, permanent fixes in environments where standard adhesives degrade

Application Guidelines

- Surfaces must be clean, dry, and free of contaminants. Light abrasion or solvent wipe recommended for optimal results.
- For polyolefins (PP, PE) or silicone-based rubbers, use a surface activator/primer to maximize bond strength.
- Apply in a well-ventilated area; avoid prolonged skin contact.
- Store unopened containers at <25°C in a dry environment to preserve reactivity and shelf life.

Why Choose B8X-402?

When standard instant adhesives fail under heat or on stubborn materials, B8X-402 delivers. It's not just fast—it's engineered to last where performance matters most.

Available in compact (20g) and bulk (500g/1000g) formats for prototyping, production, and field service alike.

Contact us for technical support, sample requests, or compatibility testing on your specific substrate.