

B8X-496 General-Purpose Instant Adhesive

B8X-496 combines the ease of a general-purpose instant adhesive with enhanced adhesion tailored for metal surfaces. Its optimized viscosity provides better control than ultra-thin formulations while maintaining excellent wettability—ideal for bonding precision metal components, mixed-material assemblies, or porous elastomers. With a broad strength profile (up to 4,350 psi depending on substrate and surface prep), B8X-496 ensures robust joints even under moderate mechanical stress.

Key Technical Specifications

Parameter	Value
Viscosity	125 cP
Appearance	Clear
Gap Fill	0.005 in. (0.15 mm)
Fixture Time (steel)	10–30 seconds
Shear Strength	2,900–4,350 psi (20–30 N/mm ²)
Service Temperature	–40°C to +80°C
Packaging	20g / 500g / 1000g

Performance Highlights

- **Exceptional Adhesion to Metals:** Delivers peak strength on steel, aluminum, brass, and other common engineering metals—even without primers.
- **Broad Strength Range:** Achieves up to **4,350 psi** on properly prepared metal surfaces, among the highest in its class.
- **Balanced Viscosity (125 cP):** Resists dripping on vertical surfaces while still flowing into micro-gaps.
- **Multi-Material Compatibility:** Also bonds **engineering plastics (ABS, PC, PVC)** and **elastomers (NBR, EPDM, TPE)** reliably.
- **Controlled Cure Window:** 10–30 second fixture time allows for precise part alignment before handling.

Typical Applications

- **Metal Fabrication:** Joining brackets, fasteners, nameplates, and small hardware
- **Automotive:** Interior metal trim, sensor housings, connector retention
- **Electronics:** Securing metal shields, grounding tabs, and chassis components
- **Industrial Assembly:** Bonding metal-to-rubber mounts, plastic inserts into metal housings
- **Maintenance & Repair:** Quick, high-strength fixes for broken tools, fixtures, or machinery parts

Application Guidelines

- For best results on metals, clean with solvent (e.g., IPA) and lightly abrade if passive (e.g., stainless steel).
- Avoid over-application—thin bond lines yield maximum strength.
- On low-energy plastics (PP, PE) or silicone rubbers, use a compatible primer.
- Store sealed at room temperature (<25°C) to maintain reactivity.

Why Choose B8X-496?

When your primary challenge is achieving **strong, consistent bonds on metal**—without sacrificing compatibility with plastics or rubbers—B8X-496 offers the ideal balance of speed, strength, and versatility. It's the smart choice for mixed-material assemblies where metal is the critical substrate.

Available in 20g (R&D/trial), 500g, and 1000g (production-scale) packaging.

Contact us for substrate-specific bond strength data or to request a sample.