

## B8X-480 High-Impact, Black Instant Adhesive

B8X-480 is a high-performance, rubber-toughened instant adhesive engineered for structural bonds that must withstand shock, vibration, and moisture. Its distinctive black color provides visual contrast for quality control, while its enhanced flexibility significantly improves resistance to crack propagation—making it the preferred choice for automotive, industrial machinery, and electromechanical assemblies where failure is not an option.

Unlike standard cyanoacrylates, B8X-480 maintains integrity under dynamic loading and offers reliable adhesion even on slightly damp metal surfaces.

### Key Technical Specifications

Parameter	Value
Viscosity	200 cP
Appearance	Black
Gap Fill	0.006 in. (0.18 mm)
Fixture Time (steel)	~90 seconds
Shear Strength	3,800 psi (26 N/mm <sup>2</sup> )
Service Temperature	-40°C to +100°C (-40°F to 212°F)

Packaging	20g / 500g / 1000g
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## Performance Highlights

- **Highest Shear Strength in Series:** 3,800 psi—ideal for load-bearing joints.
- **Exceptional Peel & Impact Resistance:** Rubber-toughened formulation absorbs energy and resists delamination.
- **Superior Moisture Tolerance:** Bonds reliably in humid conditions; excellent long-term durability on metals exposed to condensation or splashes.
- **Versatile Substrate Bonding:** Proven on **steel, aluminum, neodymium magnets, EPDM, nitrile rubber,** and engineering plastics.
- **Black Color for Traceability:** Enables easy visual inspection of bond lines in automated or manual assembly.

## Typical Applications

- **Electric Motors & Sensors:** Bonding magnets to steel housings or rotors
- **Automotive:** Mounting rubber bushings, brackets, and trim in under-hood or chassis applications
- **Industrial Equipment:** Securing wear pads, dampers, and metal-rubber composite parts
- **Power Tools:** Handle-to-housing assembly requiring drop and vibration resistance
- **Marine & Outdoor Gear:** Metal components exposed to humidity or intermittent water contact

## Application Guidelines

- Surfaces should be clean and free of oil; light abrasion improves durability on passive metals (e.g., stainless steel).
- Slight surface moisture is tolerated, but standing water must be avoided.
- The 90-second fixture time allows for precise alignment in complex assemblies.
- Store upright in a cool, dry place (<25°C); keep nozzle sealed to prevent premature curing.

## Why Choose B8X-480?

When your application demands more than just speed—when you need **strength, toughness, and resilience in real-world conditions**—B8X-480 delivers unmatched performance among instant adhesives. It's not just strong; it's built to last under stress.

Available in 20g (prototyping), 500g, and 1000g (high-volume production) formats.

**Contact us for compatibility testing on magnetic assemblies or humid-environment validation data.**