

B8X-406 Ultra-Low-Viscosity Instant Adhesive

B8X-406 is formulated for applications demanding deep penetration into tight joints and micro-gaps. Its water-thin consistency (20 cP) enables spontaneous capillary action, making it ideal for bonding complex geometries, porous rubber compounds, or assemblies with minimal surface contact. Unlike standard instant adhesives that fail on saturated or inert elastomers, B8X-406 provides consistent adhesion to **EPDM, TPE, TPU**, and many engineering plastics—without requiring aggressive primers in most cases.

Key Technical Specifications

Parameter	Value
Viscosity	20 cP
Appearance	Clear
Gap Fill	0.004 in. (0.12 mm)
Fixture Time (steel)	~30 seconds
Shear Strength	2,250 psi (15.5 N/mm ²)
Service Temperature	-40°C to +121°C
Packaging	20g / 500g / 1000g

Performance Highlights

- **Ultra-Low Viscosity (20 cP):** Flows effortlessly into hairline cracks, capillary joints, and intricate assemblies.
- **Proven Adhesion to EPDM & Elastomers:** Bonds reliably to **EPDM, neoprene, nitrile rubber, TPE,** and **soft-touch plastics**—materials notoriously difficult for standard CA adhesives.
- **Optimized for Plastic-Rubber Hybrids:** Ideal for overmolded components, gasket-to-housing seals, and multi-material devices.
- **Controlled Cure Profile:** 30-second fixture time balances speed with repositioning window for precision alignment.
- **Thermal Resilience:** Stable performance up to **121°C (250°F)**, suitable for under-hood and appliance environments.

Typical Applications

- **Automotive:** EPDM weatherstrip bonding, sensor gasket sealing, interior trim assembly
- **HVAC & Plumbing:** Rubber hose-to-fitting joints, valve actuator bonding
- **Consumer Appliances:** Sealing rubber feet to plastic housings, control panel overlays
- **Industrial Equipment:** Bonding flexible conduits, diaphragms, and vibration-damping mounts
- **Electronics Enclosures:** Securing rubber seals on IP-rated device casings

Application Guidelines

- Surfaces should be clean, dry, and free of mold release agents or plasticizers.
- For highly saturated or silicone-rich EPDM, light abrasion or a compatible primer may enhance long-term durability.
- Apply sparingly—its high fluidity means a small drop spreads rapidly.
- Store upright in a cool, dry place (<25°C); keep nozzle clean to prevent clogging.

Why Choose B8X-406?

When your assembly involves tight gaps, complex contours, or “unbondable” elastomers like EPDM, B8X-406 delivers where others can’t. It’s the specialist’s choice for invisible, high-integrity bonds in demanding plastic-rubber hybrid systems.

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

Contact us for substrate compatibility testing or to request a sample.