

B8X-243 Medium-Strength Threadlocker

B8X-243 is a true industrial workhorse: a medium-strength threadlocker that performs reliably in real-world conditions where contamination from cutting fluids, anti-corrosion oils, or engine lubricants is unavoidable. Unlike many competitors, it bonds effectively to **stainless steel, aluminum, zinc-plated, and passivated surfaces without requiring a primer or activator**. Its thixotropic consistency ensures precise application and zero migration, making it ideal for vertical, overhead, or blind-hole assemblies in demanding mechanical environments.

Key Technical Specifications

Parameter	Value
Viscosity	2,150 cP
Color	Blue
Thixotropic	Yes
Max Recommended Fastener Size	M30 and smaller
Fixture Time	~10 minutes
Breakaway Torque (M10 steel)	26 N · m (230 lb · in)
Prevailing Torque (M10 steel)	5 N · m (40 lb · in)

Service Temperature	-55°C to +180°C (-65°F to 360°F)
Packaging	20 ml / 250 ml

Note: Breakaway torque = torque required to initiate loosening;

Prevailing torque = torque required to continue turning after breakaway.

Performance Highlights

- **Oil-Tolerant Formula:** Bonds reliably on threads contaminated with **engine oil, cutting fluid, or rust-preventive coatings**—no cleaning required in many cases.
- **Universal Metal Compatibility:** Works on **carbon steel, stainless steel (including passive grades), aluminum, brass, and electroplated surfaces** without activator.
- **Tool-Removable After Cure:** Full-strength lock can be disassembled using standard wrenches or sockets—no heat needed.
- **High-Temperature Stability:** Continuous service up to **180°C (360°F)**, suitable for engines, gearboxes, and hydraulic systems.
- **Seals Against Leaks:** Fills microscopic thread gaps to prevent fluid or gas leakage in pressurized systems.

Typical Applications

- **Pumps & Compressors:** Locking casing bolts and impeller shaft nuts

- **Electric Motors & Gearboxes:** Securing mounting bolts and coupling fasteners
- **Hydraulic & Pneumatic Systems:** Preventing loosening in high-vibration manifolds
- **Machine Tools:** Fixing toolholder screws, turret bolts, and spindle retainers
- **Automotive & Heavy Equipment:** Engine block bolts, transmission housings, suspension linkages

Application Guidelines

- For best results, apply directly to clean or lightly oiled threads.
- Apply to 2–3 threads of the male fastener or into the female tapped hole.
- Assemble immediately; handling strength in ~10 minutes, full cure in 24 hours.
- To disassemble, apply standard hand torque—no heating required for fasteners \leq M30.
- Store upright at room temperature (<25°C); keep nozzle clean and cap sealed.

Why Choose B8X-243?

When your assembly faces **oil, heat, vibration, and mixed-metal substrates**, B8X-243 delivers dependable performance without over-engineering. It's the smart, serviceable solution for industrial maintenance, OEM production, and repair shops worldwide.

Available in 20 ml (trial/workshop) and 250 ml (production) bottles.

Request a sample or compatibility report for your specific fastener material and lubricant environment.