# B8X-222 Removable Threadlocker

B8X-222 is engineered for applications where vibration resistance is needed—but permanent locking would risk damaging delicate components during maintenance or adjustment. Its thixotropic formulation prevents migration on vertical or overhead threads, while the low-strength bond ensures reliable retention without requiring heat or power tools for disassembly. Ideal for precision instruments, control systems, and assemblies featuring aluminum, brass, or other low-shear-strength materials.

## Key Technical Specifications

| Parameter | Value |
|---|---|
| **Viscosity** | 1,200 cP |
| **Color** | Purple |
| **Thixotropic** | Yes |
| **Max Recommended Fastener Size** | M8 |
| **Fixture Time** | ~20 minutes |
| **Breakaway Torque (M10 steel)** | 6 N・m (50 lb・in) |
| **Prevailing Torque (M10 steel)** | 14 N・m (120 lb・in) |

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| **Service Temperature** | –55°C to +150°C (–65°F to 300°F) |
| **Packaging** | 20 ml / 250 ml |

## Performance Highlights

- **Low-Strength, Fully Removable**: Designed for manual disassembly with standard wrenches or screwdrivers—no heating required.
- **Thixotropic Formula**: Stays in place on vertical, inverted, or through-hole applications; resists slumping or dripping.
- **Protects Soft Metals**: Prevents galling and thread damage in **aluminum, brass, and zinc die-cast** components.
- **Vibration Resistance**: Locks set screws, grub screws, and collar bolts against loosening in dynamic environments.
- **High-Temperature Stability**: Performs reliably up to **150°C (300°F)**—suitable for under-hood and industrial equipment.

## Typical Applications

- **Precision Machinery**: Locking adjustment screws on slides, micrometers, and alignment fixtures
- **Electrical & Control Systems**: Securing terminal block screws, potentiometer shafts, and selector knobs
- **Automotive & Aerospace**: Retaining pulleys, sensor mounts, and trim fasteners on aluminum housings

- **Tooling & Fixturing**: Holding collets, tool holders, and clamping screws that require frequent access
- **Instrumentation**: Locking set screws on dials, encoders, and rotary controllers without drift

## Application Guidelines

- Clean threads thoroughly with solvent (e.g., IPA) to remove oil, grease, or debris.
- Apply a thin bead to 2–3 threads of the male fastener or into the female tapped hole.
- Assemble immediately and allow 20 minutes for handling strength; full cure in 24 hours.
- For passive metals (e.g., stainless steel, anodized aluminum), use a primer to ensure consistent performance.
- Store upright at room temperature (<25°C); keep cap tightly sealed.

## Why Choose B8X-222?

When you need to **prevent loosening without sacrificing serviceability**, B8X-222 delivers the perfect balance. It’ s the trusted solution for engineers who demand reliability—but refuse to risk breaking expensive or delicate parts during maintenance.

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

**Request a sample or technical datasheet to validate B8X-222 in your next serviceable assembly.**