

B8X-277 High-Strength Permanent Threadlocker

B8X-277 is formulated for the most demanding heavy-industry applications where standard threadlockers cannot stay in place. Its paste-like consistency (7,000 cP) prevents sagging or migration on vertical, overhead, or oversized threads—making it ideal for massive bolts, studs, and flanged connections in mining, power generation, and marine engineering.

Key Technical Specifications

Parameter	Value
Viscosity	7,000 cP
Color	Red
Thixotropic	No (paste-like consistency)
Max Recommended Fastener Size	M80
Fixture Time	~45 minutes
Breakaway Torque (M10 steel)	32 N · m (280 lb · in)
Prevailing Torque (M10 steel)	32 N · m (280 lb · in)
Service Temperature	-55°C to +150°C (-65°F to 300°F)
Disassembly	Requires localized heating (>250°C)

Packaging	20 ml / 250 ml
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Note: Torque values are reference data on M10; actual performance scales with fastener size and fit.

Performance Highlights

- **Stays Where Applied:** Ultra-high viscosity ensures no drip or slump—even on inverted M80 threads.
- **True Permanent Locking:** Fully cures to a rigid thermoset polymer for maximum vibration resistance.
- **Seals Large Threads:** Fills wide clearances in coarse or worn threads to prevent leaks.
- **Industrial-Grade Reliability:** Trusted in mining, shipbuilding, and heavy machinery.

Typical Applications

- Main bearing caps and crankshaft studs
- Propeller shaft nuts and rudder assemblies
- Flange bolts on pressure vessels and pipelines
- Structural foundation anchors
- Wind turbine tower connections

Application Guidelines



- Apply generously to male or female threads; ensure full coverage in large gaps.
- Assemble immediately; handling strength in ~45 minutes, full cure in 24–72 hours.
- For disassembly, heat the nut or bolt head to **?250°C (482°F)** and loosen while hot.
- Store upright at room temperature (<25°C); keep cap tightly sealed.

Available in 20 ml (trial) and 250 ml (industrial) packaging.