

B8X-290 Penetrating Threadlocker

B8X-290 solves the challenge of securing already-assembled fasteners without disassembly. Its ultra-low viscosity enables rapid capillary action into tightly mated threads, making it ideal for instrument screws, electrical connectors, and small mechanical assemblies. Once cured in the oxygen-free environment between metal surfaces, it provides reliable medium-high strength retention while remaining serviceable with standard hand tools.

Key Technical Specifications

Parameter	Value
Viscosity	40 cP
Color	Green
Thixotropic	No
Max Recommended Fastener Size	M6
Fixture Time	~20 minutes
Breakaway Torque (M10 steel)	10 N · m (90 lb · in)
Prevailing Torque (M10 steel)	29 N · m (260 lb · in)
Service Temperature	-55°C to +150°C (-65°F to 300°F)

Packaging	20 ml / 250 ml
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Note: Breakaway torque is lower than prevailing torque—typical of wicking formulations where full thread coverage may vary.

Performance Highlights

- **Wicks into Pre-Assembled Joints:** No need to disassemble; apply at thread interface and let capillary action do the rest.
- **Seals Micro-Leaks:** Fills porosity in castings, powder metal parts, and weld seams.
- **Medium-High Strength:** Secure enough for vibration-prone environments, yet removable with hand tools.
- **Ideal for Precision Assemblies:** Perfect for electronics, instrumentation, and small mechanical systems.

Typical Applications

- Electrical terminal blocks and connector screws
- Instrument panel fasteners
- Small motor housings and sensor mounts
- Porous metal components (cast aluminum, sintered parts)
- Maintenance retrofits on inaccessible bolts

Application Guidelines



- Clean area around joint to remove grease or debris for optimal wicking.
- Apply a drop at the thread interface; allow 5–10 minutes for full penetration.
- Full cure in 24 hours; handling strength in ~20 minutes.
- Disassemble using standard hand tools—no heat required.
- Store upright at room temperature (<math><25^{\circ}\text{C}</math>); keep cap sealed.

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