

Threadlocker Guide

Threadlockers significantly increase the reliability of threaded fasteners. Liquid fills gaps between threads to help form solid, unitized assemblies. They help prevent fasteners from loosening due to vibration and protect against rust and corrosion. Depending on the formula, threadlockers can be primerless and oil tolerant.

Color	Strength Level	Disassembly	Removable With	Full Cure Time	Optium Temp. Ranges	For Fastener Diameter
Purple	Low	Removable	Hand Tools	24 Hour	-65° to 300°F	Up to ¼" (6mm)
Green	Medium	Removable	Hand Tools	24 Hour	-65° to 300°F	Up to ½" (12mm)
Blue	Medium	Removable	Hand Tools	24 Hour	-65° to 300°F	¼" to ¾" (6mm to 22mm)
Red	High	Permanent*	Heat and Hand Tools	24 Hour	-65° to 550°F	Up to ½" (36mm)
Black	High	Permanent*	Heat and Hand Tools	24 Hour	-65° to 300°F	Larger than ⅜"

*No threadlocker is permanent. High strength can be removed using standard hand tools following direct exposure to temperatures of 450°F.

LOCTITE Vibra-TITE

Threadlockers

Threadlockers—Help prevent damage to fasteners by sealing air gaps to stop fasteners from loosening. Primers are often suggested when using threadlockers to help increase adhesion to fasteners. For a selection of primers, see page 2118.

Primerless Threadlockers—Allow you to apply threadlocking material without using priming activators.

Wicking Grade Threadlockers—Ideal for threaded assemblies, these low viscosity threadlockers flow or wick themselves onto threads. Meet MIL-S-46163A for existing designs. 49CF71 also meets ASTM D 5363 for new design.

HIGH LUBRICITY

High-strength formula with increased lubricity reduces friction and achieves proper clamp load, even when exposed to vibration. Use for permanent applications on large metal fasteners over ⅞" dia.

PLASTIC FASTENER

Low-strength and fast-curing threadlocker can be used as a tamperproofing agent for screw heads.

STICK

Semisolid stick formula won't spill or leak.

TAPE

Offers convenience with no mess. Works with 3 wraps on threaded bolts every time.



Purple
2VZC3

Blue
5HYH7



Green
49CF71



Red
49CF49



Plastic Fastener
2VZD1



Stick
3UU58



Tape
5HYJ1

Threadlocker Color	Threadlocker Classification	Size	Threadlocker Container	Begins to Harden	Series	Temp. Range	Brand	Item No.
Low-Strength								
Purple	Threadlocker	0.5 mL	Capsule	10 min	222	-65° to 300°F	Loctite	2VZC3
		10 mL	Bottle	20 min	222MS	-65° to 300°F	Loctite	5E212
		50 mL	Bottle	10 min	222MS	-65° to 300°F	Loctite	5E213
		250 mL	Bottle	4 min	111	-60° to 300°F	Vibra-Tite	49CE74
Medium-Strength								
Blue	Primerless Threadlocker	10 mL	Bottle	5 min	243	-65° to 360°F	Loctite	5HYH7
		50 mL	Bottle	5 min	243	-65° to 360°F	Loctite	5HYH5
		250 mL	Bottle	4 min	122	-60° to 300°F	Vibra-Tite	49CF38
		0.5 mL	Capsule	5 min	242	-65° to 300°F	Loctite	2VZC4
	Threadlocker	10 mL	Bottle	5 min	242	-65° to 300°F	Loctite	5A228
		50 mL	Bottle	5 min	242	-65° to 300°F	Loctite	2A269
		250 mL	Bottle	4 min	121	-60° to 300°F	Vibra-Tite	49CJ64
		10 mL	Bottle	20 min	290	-65° to 300°F	Loctite	5E216
Green	Wicking Grade Threadlocker	50 mL	Bottle	20 min	290	-65° to 300°F	Loctite	5E217
		250 mL	Bottle	4 min	150	-60° to 300°F	Vibra-Tite	49CF71
Medium-Strength, Removable With Hand Tools								
Blue	Primerless Threadlocker	250 mL	Bottle	5 min	243	-65° to 360°F	Loctite	5HYH6
		250 mL	Bottle	10 min	242	-65° to 300°F	Loctite	4KL40
High-Strength								
Red	Primerless Threadlocker	10 mL	Bottle	10 min	263	-65° to 360°F	Loctite	5HYH9
		50 mL	Bottle	10 min	263	-65° to 360°F	Loctite	5HYJ0
		0.5 mL	Capsule	10 min	262	-65° to 300°F	Loctite	2VZC6
		0.5 mL	Capsule	10 min	271	-65° to 300°F	Loctite	2VZC7
		10 mL	Bottle	4 min	2760	-65° to 300°F	Loctite	1LLP8
		10 mL	Bottle	10 min	262	-65° to 300°F	Loctite	5E214
		10 mL	Bottle	10 min	271	-65° to 300°F	Loctite	5A230
		10 mL	Bottle	60 min	277	-65° to 300°F	Loctite	3KE48
	Threadlocker	10 mL	Bottle	10 min	262	-65° to 300°F	Loctite	5E215
		50 mL	Bottle	10 min	271	-65° to 300°F	Loctite	5A231
		50 mL	Bottle	60 min	272	-65° to 450°F	Loctite	4KL51
		50 mL	Bottle	60 min	277	-65° to 300°F	Loctite	3KE49
		250 mL	Bottle	4 min	131	-60° to 300°F	Vibra-Tite	49CF49
		250 mL	Bottle	9 min	140	-60° to 300°F	Vibra-Tite	49CF63
		250 mL	Bottle	9 min	137	-60° to 450°F	Vibra-Tite	49CF57
		250 mL	Bottle	9 min	146	-60° to 300°F	Vibra-Tite	49CF66
High-Strength, Removable With Heat and Hand Tools								
Red	Primerless Threadlocker	250 mL	Bottle	10 min	263	-65° to 360°F	Loctite	5HYH8
		250 mL	Bottle	10 min	271	-65° to 300°F	Loctite	4KL50
		250 mL	Bottle	60 min	272	-65° to 450°F	Loctite	4KL52
High Lubricity Threadlocker								
Black		50 mL	Bottle	90 min	2047	-65° to 300°F	Loctite	19L453
Plastic Fastener Threadlocker								
Blue		0.7 oz	Bottle	1.5 min	425	-65° to 180°F	Loctite	2VZD1
Stick Threadlocker								
Blue	Stick	0.32 oz		5 min	248	-65° to 300°F	Loctite	3UU58
		0.67 oz		5 min	248	-65° to 300°F	Loctite	3UU52
		0.32 oz		5 min	268	-65° to 300°F	Loctite	3UU56
Red	Stick	0.67 oz		5 min	268	-65° to 300°F	Loctite	3UU57
Threadlocker Tape								
			Medium-Strength, ½ in W x 260 in L				Loctite	5HYJ1