



LL003

LIQUI-LOK

Thread Locking Compound

- GEAR OILS
- MOTOR OILS
- HYDRAULIC OILS
- PIPE COATINGS
- THREAD SEALANTS
- BEARING GREASES
- SPECIALTY GREASES
- THREAD COMPOUNDS
- SUCKER ROD COATINGS
- OUTSIDE PRESERVATIVES
- WIRELINE GREASE SEALS
- CLEANERS & DEGREASERS
- PIPE STORAGE COMPOUNDS
- RUST & CORROSION INHIBITORS
- THREAD LOCKING COMPOUNDS
- VALVE LUBRICANTS & SEALANTS
- TOOL JOINT & DRILL COLLAR COMPOUNDS

PRODUCT DESCRIPTION

LL003 Liqui-Lok Thread Locking Compound is a two part epoxy compound used to replace the welding of casing joints and threaded connections. LL003 Liqui-Lok is unaffected by vibration, pounding, or expansion due to temperature changes. It withstands high break-out torque and provides a leakproof seal. LL003 Liqui-Lok is easily mixed under varying temperatures due to its workable consistency in excess of one hour.

BENEFITS

- Friction factor of 1.5
- Mixes easily
- Workable consistency in excess of one hour
- Water resistant
- Oxidation resistant
- Withstands high breakout torque
- Provides a leakproof seal
- Self lubricating
- Unaffected by vibration and pounding
- Excellent adhesion

APPLICATION

1. Thoroughly clean male and female threads to remove all thread dope, oil, and grease.
2. Dry threads completely prior to application of Liqui-Lok.
3. Remove retaining ring and plug from cartridge.
4. Insert F-style mixing tip and replace retainer ring.
5. Insert cartridge into dispensing gun and apply.
6. When used in conjunction with float equipment, apply Liqui-Lok to male threads using a putty knife or spatula.
7. Make up joints final torque without delay.

NOTE

Setting action begins immediately after addition of the hardener. The mixture will remain in a workable consistency from 45 minutes to 2 hours under average conditions. Curing time may be reduced by elevating the temperature or increased by lowering it. The cure seal may be broken out by heating the joint to 550°F (288°C). Wet joints or high moisture conditions may affect curing ability.

TYPICAL OBSERVATIONS LL003

Chemical Family	Epoxy Polymer Resin
Color	Gray
Specific Gravity @ 25°C	1.797
ASTM Penetration @ 77°F (25°C)	355–365
NLGI Grade	0
Type Curing	Thermo Curing
Density lb/gal	15.00
Friction Factor	1.5
Shelf Life	Three year

TYPICAL OBSERVATIONS LL003 Hardener

Appearance	Liquid
Color	Pale Straw Colored
Odor	Aminic
Density, lb/gal @ 77°F (25°C)	8.51
Specific Gravity	1.019
Solubility in Water	Appreciable (>10%)
Percent Volatile	Nil
Flash Point	>250°F (121°C)

COVERAGE CHART

PIPE SIZE	NO. OF JOINTS
4½"–5½"	8 Joints
6⅝"–7"	6 Joints
7⅝"–9⅞"	4 Joints
10¾"–3⅝"	2 Joints
16"–20"	1 Joint

RELATED PRODUCTS

- 250 Liqui-Lok Thread Locking Compound
- 252 Environmentally Friendly Thread Locking Compound

