

X-LOCK – Thread Locking Compound

X-LOCK – Thread Locking Compound is specifically formulated to provide exceptional breakout torque capacity for tubulars in challenging downhole conditions. It also provides low coefficient friction during makeup.

The system includes a flexibilized epoxy resin component, which minimizes any degradation through vibration.

It is packaged in a user-friendly 5:1 mix ratio by weight.

Mechanical Characteristics

Technical Properties	Metric Units	U.S. Units
Breakout torque (max. machine limit 120000 ft lb) – see graph on page 2	> 162698 J	> 120000 ft lb
Makeup Friction factor	1.0	1.0
Direct adhesion	44.8 Mpa	> 6497.6 Psi
Tensile Strength	52.59 Mpa	> 7627.53 Psi
Compressive Strength	90.35 Mpa	> 13104.15 Psi
Flexural Strength	42 Mpa	> 6091.58 Psi
Temperature range	- 40°C to 150°C (Higher Temperature Resistance available if requested)	- 40° F to 302°F (Higher Temperature Resistance available if requested)
Pot Life	38 Min (300g sample)	38 min (10,58 Oz.)
Mix viscosity	A: 45900 mPas B: 800 mPas	
Mix ratio by weight	5:1 (A:B)	
Specific Gravity of mixed material	1.35	
Cure room temperature (time to maximum strength)	10 hours	
Cure at 50°C (time to maximum strength)	6 hours	

Application:

X-LOCK is a two-compounded compound and it's supplied in kits with the correct mix ratio. When using smaller quantities A and B should be weighed out in a mixed ratio by weight of 5 parts A to 1 Part B.

A and B should be thoroughly mixed together using the spatula provided until mixture is homogenous.

Thread should be cleaned with solvent until free of any residual dope or contaminants and bare metal is visible. Area should be further rinsed with fresh water and dried completely before application of the mixed X-LOCK compound.

Apply a thin layer of X-LOCK around the first two-thirds of the PIN thread only. Do not apply any thread dope.

One (1) X-LOCK kit contains:

- One (1) 8 oz per can of X-LOCK thread-locking compound
- One (1) Hardener vial
- One (1) Spatula

Material Information & Storage

Casing OD	Each X-LOCK Kit Will Lock
4 1/2"	10
5 1/2"	6
6 5/8" or 7	4
7 5/8", 8 5/8" or 9 5/8"	3
10 3/4", 11 3/4" or 13 3/8"	2
16 or 20	1

Storage

X-LOCK can be stored at room temperature up to 2 years.