Tough Technology Products
Eaton Place Business Centre,114 Washway Road, Sale
Cheshire, M33 7RF,England
Tel: 0800 772 0996
Leading Edge Technology

T-Lock 2

TTP Thread Lock TLK2002

Medium fast setting 15 -30 mins mins
Medium strength locking
Gap filling up to 0.3mm
Thread locking Temperature range -55c to + 150c

Product Description

T-Lock2 is a general purpose, medium-high strength, thixotropic anaerobic threadlocker.
The product cures when confined in the absence of air on close-fitting metal surfaces.

Typical Applications

T-Lock2 is formulated to lock all metric and imperial nuts and bolts, preventing vibration loosening and leakage through the threads.T-Lock2 is slightly oil tolerant, so it will bond some 'as received' parts, but best results are obtained with clean substrates. The thixotropic nature of the product prevents run off, dripping and migration after assembly. T-Lock2 is typically used on mounting bolts, housing screws, etc. T-Lock2 prevents corrosion of assembled parts.

Technical Information

Chemical type		Dimethacrylate
Appearance		Blue
Specific Gravity		1.04
Viscosity cPs	(Range) [1]	10,000-18,000
	(Typical value) [1]	14,000
	(Range) [2]	2,500-4,000
	(Typical value) [2]	3,300
Breakaway Torque[3] (N.m)	range	12-25
	typical	19
Prevail Torque[3] (N.m)	range	5-15
	typical	10
Fixture Time[4]	(mins)	≤5
Full Cure @20ºC	(hours)	24
Flash Point	(ºC)	> 100
Shelf Life @ 20ºC	(months)	12
Max Gap Fill	(mm)	0.30
Operating Temp Range	(ºC)	-50 to +150

[1] Brookfield RVT, spindle 3, 2.5rpm
[2] Brookfield RVT, spindle 3, 20rpm
[3] On M10 black oxide steel bolt and M10 bright steel nut, ISO10964
[4] ISO 10964

Typical curing speed[4], % of final strength:-
15 mins Finger tight
1 hour ~60% strength
24 hours 100% strength

Tough Technology Products
Eaton Place Business Centre,114 Washway Road, Sale
Cheshire, M33 7RF,England
Tel: 0800 772 0996
Leading Edge Technology

T-Lock 2

TTP Thread Lock TLK2002

Medium fast setting 15 -30 mins mins
Medium strength locking
Gap filling up to 0.3mm
Thread locking Temperature range -55c to + 150c

Cure speed & Substrate

Cure speed and strength vary according to the substrates. When used on mild steel and brass components anaerobic adhesives will reach full strength more rapidly than more inert materials such as stainless steel and zinc dichromate.

Cure Speed & Bond Gap

The size of the bond gap greatly affects the speed of cure of anaerobic adhesives. Bond gap varies with thread type and size of the fastener.The larger the gap between threads, the slower the cure speed. Maximum recommended gap for T-Lock2 is 0.3mm.

Cure Speed & Temperature

All figures relating to cure speed are tested at 22°C. Lower temperatures will result in slowercure. Heating the assembled parts accelerates the curing process.

Typical Enviromental Resistance

Hot Strength
T-Lock2 is suitable for use at temperatures up to 150°C. At 130°C the bond strength will be ~30% of the strength at 21°C.

Heat Ageing
T-Lock2 retains ~90% full strength when heated to 100°C for 90 days then cooled and tested at 21°C.

Chemical / Solvent Resistance

TTP anaerobics exhibit excellent chemical resistance to most oils and solvents including motor oil, leaded petrol, brake fluid,acetone, ethanol, propanol and water.Anaerobic adhesives and sealants are not recommended for use in pure oxygen or chlorine lines.

Tough Technology Products
Eaton Place Business Centre,114 Washway Road, Sale
Cheshire, M33 7RF,England
Tel: 0800 772 0996
Leading Edge Technology

T-Lock 2

TTP Thread Lock TLK2002

Medium fast setting 15 -30 mins mins
Medium strength locking
Gap filling up to 0.3mm
Thread locking Temperature range -55c to + 150c

Storage

Store in a cool area out of direct sunlight. Refrigeration to 5° C gives optimum storage stability.

Presentation

Bottles: ... .50ml.

Useage

For safe handling of this product consult the Material Safety Data Sheet. Anaerobic adhesives only cure in the absence of air and with metal part activation. Adhesive outside the Joint will remain uncured and may be wiped awaywith a cloth. T-Lock2 is suitable for most medium and coarse threaded screws, nuts and bolts. Not recommended on certain plastics as stress cracking can sometimes result. Some anti-corrosion chemicals inhibit the cure system in this type of anaerobic.Trials are recommended to establish whether cleaning of the parts is necessary.

Disclaimer