KENT

Studlock

General purpose high-strength threadlocker with very high temperature resistance.

Features & Benefits

- Red high-strength threadlocker - designed for permanent locking of threaded fasteners
- Highly resistant to vibrations and shocks - ideal for locking assemblies on moving parts
- Very high temperature resistance - up to +200° C
- Increased oil tolerance - locks assemblies even when not completely clean
- Primerless on active and passive metals - saves time in the maintenance and repair operation
- High chemical resistance to most industrial liquids
- Non-hazardous - safe for the user and the environment
- NSF P1 registered - for use in food-processing environment

P/N	Product	S/C	Packaging
86540	Studlock	SLK	50 ml concettina bottle
86545	Anaerobic Activator	ANAC	200 ml aerosol

Application

Studlock is designed for permanent locking and sealing of threaded fasteners up to 1-1/4" (M36). Studlock is so powerful that it will require heat to be disassembled (260° C). Studlock is ideal for heavy duty applications such as studs into engine housings, nuts onto studs in pump cases and other fasteners where high strength is needed. The very high temperature resistance (200° C constant) makes it the ideal product for use in industrial ovens, refineries, boiler rooms, pulp and paper, turbo engines, metal fabrication, glass manufacturing, and more. Studlock cures in the absence of air between close fitting metal parts - active metals such as brass and copper, and passive metals such as stainless steel, aluminium and plated surfaces. The curing speed varies depending on the surface. For increasing the curing speed, use KENT Anaerobic Activator. Studlock can be applied on surfaces presenting traces of cutting oils, lubricants and protection liquids.

Instructions

1. Clean all threads with KENT Soft Surface Cleaner.
2. If required, apply KENT Anaerobic Activator on all threads and allow 30 to 60 seconds to dry.
3. Insert the bolt through the hole assembly.
4. Apply Studlock on both bolt and nut.
5. Assemble and tighten nut to required torque. Don’t move parts after tightening.
6. Functional strength is achieved in 3 to 6 hours depending on the nature of the surface and the size of the thread. Allow 24 hours curing time in order to achieve full strength.

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Technical Information

Base:	Methacrylicate anaerobic resin
Consistency:	Thixotropic liquid
Colour:	Red
Shelf life:	12 months (23° C)
Custom tariff code:	3506 99 00
VOC:	0 g/l

Cure mechanism:	Anaerobic
Viscosity (Brookfield):	10000 - 15000 mPa.s
Specific gravity:	1.05 - 1.09 g/ml
Maximum thread:	M36
Handling strength achieved:	20 - 40 minutes *
Functional strength achieved:	3 - 6 hours *
Full strength achieved:	12 - 24 hours *
Breakaway torque:	30 - 50 Nm *
Prevailing torque:	30 - 50 Nm *
Temp resistance :	-50° C to +200° C
Certification:	NSF P1 (155143)

* Measured on M10 x 20 - quality 8.8 zinc nut - and bolt 0.8D (without initial load)

Chemical Resistance

Sulphuric acid 24% (battery acid):	Very good
Hydrochloric acid 37%:	Very good
Ketones:	Very good
Diesel:	Very good
Petrol:	Very good
Alcohol:	Very good
Glycols:	Very good
Water:	Very good
Salt water:	Very good
Brake fluids:	Very good
Motor Oils:	Very good

For the complete list, please take contact with your KENT technical advisor. Information provided here is for reference only. The bonds tested were under laboratory conditions. Adhesive performance depends upon the specific chemicals tested, substrates bonded, surface preparation and environmental conditions in processing.

SDS available on www.kenteurope.com

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