PRODUCT SPECIFICATION

MXLOC® 70

Anaerobic Adhesive (Threadlocking)

Description:

MXLOC® 70 is designed for the sealing and locking of threaded fasteners. The product is a single component anaerobic, high strength, acrylic based threadlocker. The product cures when confined in the absence of air between close fitting metal surfaces which prevents leakage and loosening from vibration and shock.

Typical Properties of Uncured Material:

Liquid State	
Base	Acrylic
Chemical Form	Dimethacrylate ester
Colour	Green
Fluorescence	Positive under UV
Cure	Anaerobic
Secondary Cure	Activator
Specific Gravity @ 25°C	1.10
Working Temperature	-54°C-150°C
Fixture Time	10 – 15 mins
Viscosity at 25°C *(Brookfield LV-52Z at 9rpm)*	400-600 cP *(Low)*
Strength	High
Application	Threadlocking
Shelf Life	12 Months

Bond Strength:

(Torque Strength, M10, ISO10964, cured for 24 hours at 20-25°C)

Substrate	Typical Breakaway (Nm)	Typical Prevailing (Nm)
Steel	26	36

Revision date: 06/2026 - Revision: 02

PRODUCT SPECIFICATION

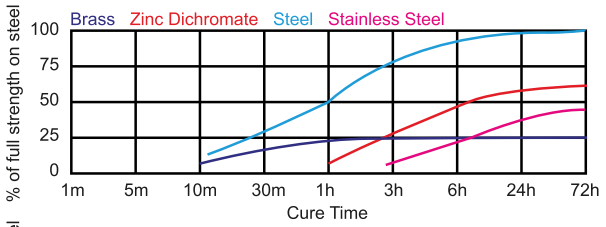
MXLOC® 70

Anaerobic Adhesive (Threadlocking)

Cure Performance:

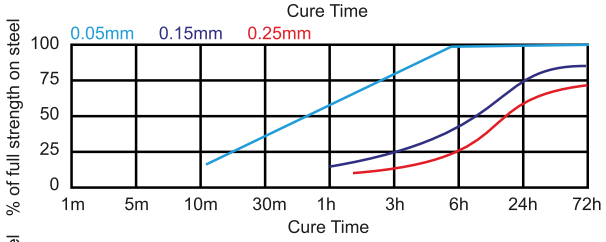
Cure Speed vs Substrate

The rate of cure is dependent on the substrate used. The graph to the right shows the breakaway strength developed with time on steel collars and pins compared to different materials and tested according to ISO 10123



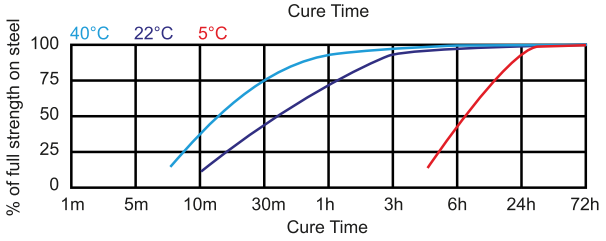
Cure Speed vs Bond Gap

The rate of cure is dependent on bond gap. The graph to the right shows shear strength developed with time on steel collars and pins compared to different controlled gaps and tested according to ISO 10123



Cure Speed vs Temperature

The rate of cure is dependent on the ambient temperature. The graph to the right shows shear strength developed with time on steel collars and pins compared to different controlled gaps and tested according to ISO 10123



Chemical/Solvent Resistance:

(Aged under conditions indicated and tested at 22°C)

Environment	°C	% of initial strength			
		100 h	500 h	1000 h	5000 h
Motor oil (MIL-L-46152)	125	95	95	95	95
Unleaded Petrol	22	100	100	95	95
Brake Fluid	22	100	100	100	100
Ethanol	22	100	85	85	85
Acetone	22	100	100	85	85
Water/Glycol 50/50	87	95	80	80	80

Revision date: 06/2026 - Revision: 02

PRODUCT SPECIFICATION

MXLOC® 70

Anaerobic Adhesive (Threadlocking)

Approvals:

NSF International – This product is registered to NSF Category S6 for use as a threadlocker where there is no possibility of food contact in and around food processing areas. Note: This is regional approval

WRAS – This product is a WRAS approved material. Sealants - screwed joints- anaerobic adhesives. These products are to be applied and cured in strict accordance with the manufacturer's instructions. For use with water up to 23°C

General Information:

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be used with Chlorine or other strong oxidising materials**. For information on the safe handling of this product, consult the Safety Data Sheet, (SDS)**. Where washing systems are used to clean the surfaces before bonding, it is important to check the compatibility of the washing solution with the adhesive. In some cases, these solutions can affect the cure and performance of the adhesive.

Directions For Use:

1. For optimum performance, surfaces should be clean and free of grease (internal and external).
2. If the material is an inactive metal, consider using MXLOC® Activator.
3. Shake the product thoroughly before use.
4. Apply several drops to the nut & bolt ensuring the full surface area to be bonded is covered.
5. Assemble and tighten as required.
6. To prevent the clogging of the nozzle, do not let the tip touch the metal surfaces during application.

Handling & Storage:

Storage: Keep products in the unopened container in a cool dry location. The product is best when stored at 8 to 24°C.Do not freeze. Keep the container tightly closed until ready for use.
Handling: Material removed from containers may be contaminated during use. Do not pour back any product to the original container. Misuse of product will void all warranties.

Disclaimer:

The data contained herein are furnished for informational purposes only and are believed to be reliable. However, Cartell UK Ltd does not assume responsibility for any results obtained by persons whose methods Cartell UK Ltd has no control. It is the responsibility to determine the suitability of Cartell UK's products, or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Cartell UK Ltd.'s products. Cartell UK Ltd specifically disclaims all warranties express or implied, including warranties of saleability and suitability for a particular purpose arising from the sale or use of Cartell UK Ltd.'s products. Cartell UK Ltd further disclaims any liability for consequential or incremental damages of any kind including lost profit.

Revision date: 06/2026 - Revision: 02