

# TDS MXLOC® 38 Retaining Compound



# **PRODUCT SPECIFICATION** MXLOC®38

# **Description:**

MXLOC® 38 is designed for the bonding of cylindrical fitting parts, particularly where bond gap can approach 025mm. The product is a single component anaerobic, acrylic based product. The product cures when confined in the absence of air between close fitting metal surfaces which prevents leaking and loosening from vibration and shock.

# **Typical Properties of Cured/Uncured Material:**

Uncured State Physical Properties		Uncured State Phy	Uncured State Physical Properties	
Base	Acrylic	Specific Gravity @ 25°C	1.09	
Colour	Green Liquid	Viscosity @ 25°C	2000 - 3000 mPas	
Chemical Form	Urethane Methacrylate	Flash Point	See MSDS	
Cure	Anaerobic	Fixture Time	10 - 15 mins	
Fluorescence	Positive under UV	Typical Performance of Cured Material		
Secondary Cure	Activator		Typical Value	
Components	Single – Requires no mixing	Operating Temperature °C	-54°C - 150°C	
Viscosity	High			
Strength	High	(after 24hrs at 20-25°C)	Typical Value	
Application	Retaining	Shear strength steel collars and pins ISO 1010123	>25Nm	

## **Cure Speed vs Substrate**

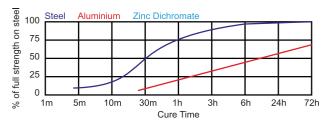
The rate of cure is dependent on substrate used. The graph to the right shows the breakaway strength developed with time on steel collars and pins compared to different materials and tested according to ISO 101123

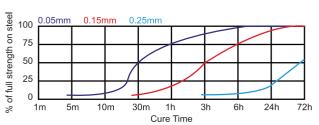
## **Cure Speed vs Bond Gap**

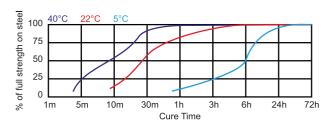
The rate of cure is dependent on bond gap. The graph to the right shows shear strength developed with time on steel collars and pins compared to different controlled gaps and tested according to ISO 10123

#### **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







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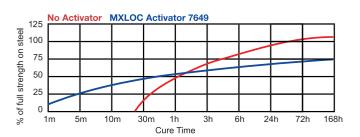
Causeway Road, Earlstrees Industrial Estate, Corby, UK, NN17 4DU.



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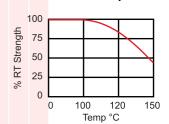
# **Cure Speed vs Activator**

Where the cure speed is unacceptable long or large gaps are present. An activator can be applied to the surface which will improve speed. The graph to the right shows the shear strength.



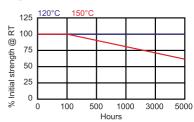
# **Typical Heat Resistance**

#### **Hot Strength** Tested at Temperature



### **Heat Aging**

Aged at temperature indicated and tested at 22°C



#### **Chemical/Solvent Resistance**

Aged under conditions indicated and tested @ 22°C

Environment	°C	% of initial strength		
		100 h	500 h	1000 h
Motor oil (MIL-L-46152)	125	100	100	100
Unleaded Petrol	22	100	90	85
Brake Fluid	22	100	90	80
Ethanol	22	100	100	75
Acetone	22	90	90	90
Water/Glycol 50/50	87	95	80	80

#### **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 Material Safety Data Sheet, (MSDS). 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.

Revision date: 01/2025 - Revision: 04



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#### **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 activator.
- 3. Assemble and tighten as required.
- 4. For shrink fitted assemblies the product should be applied onto the pin, the collar should then be heated to create clearance for free assembly.
- 5. For slip fitted assemblies the product inside of the collar then to the leading edge of the pin, then use a rotating motion in assembly to ensure coverage.
- 6. For press fitted, apply product to both surfaces making sure of assembly at high press rates.

#### For disassembly

1. In circumstances where hand tools do not work, use localised heat to bolt or nut, disassemble while hot. For cleanup

1. To remove cured product use a combination of solvent and abrasion such as a wire brush.

# **Handling & Storage**

Storage: Keep products in the unopened container in a cool dry location. The product is best when stored at 8 to 21°C. temperatures less than 2°C can adversely affect product properties. Do not freeze. Keep container tightly closed until ready for use. For long term storage keep in refrigeration at 5°C unless otherwise labelled.

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.

#### Precaution

- 1. Use with proper ventilation. Avoid contact with skin and eyes.
- If contact with skin occurs, rinse with warm water or dissolve with appropriate debonder. Do not try to remove forcibly.
- If adhesive gets into your eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
- Keep well out of reach of children.
- Keep adhesive in a cool dry place 8°C to 21°C.

#### Disclaimer:

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