TDS

MXLOC® 573

Gasketing & Sealing

56 Causeway Road, Earlstrees Industrial Estate, Corby, UK, NN17 4DU.
T: +44 (0) 1536 264222 W: www.cartell-uk.com E: mail@cartell-uk.com
England No. 6585066

Cartell UK
adhesive experts

PRODUCT SPECIFICATION

MXLOC®573

Description:

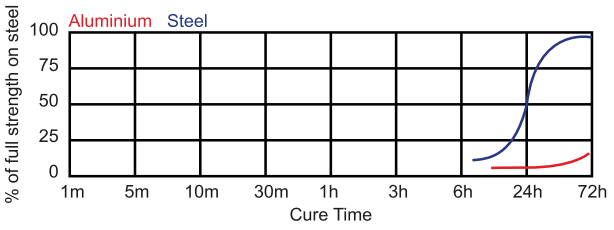
MXLOC® 573 is designed for the seal close fitting joints between flanges and faces. The product is a single component Anaerobic, medium strength thixotropic, acrylic based product. The product cures when confined in the absence of air between close fitting metal surfaces. Provides resistance to low pressure immediately after assembly of flanges.

Typical Properties of Cured/Uncured Material:

Uncured State Physical Properties		Uncured State Physical Properties	
Base	Acrylic	Specific Gravity @ 25°C	1.25
Colour	Green Paste	Viscosity @ 25°C	≥38000 mPas
Chemical Form	Dimethacrylate Ester	Flash Point	See MSDS
Cure	Anaerobic		
Fluorescence	Positive under UV	Typical Performance of Cured Material	
Secondary Cure	Activator	Physical Properties	Typical Value
Components	Single – Requires no mixing	Coefficient of Thermal Expansion	80 x 10^{-6}
Viscosity	Thixotropic Medium	Coefficient of Thermal Conductivity	0.10
Strength	Medium	Compressive Shear Strength Steel pins and collars	≥1.5 N/mm^2
Application	Gasketing and Sealing	Lap Shear Strength Steel (grit based)	1.3 N/mm^2
		Tensile Strength Steel (grit based)	5 N/mm^2

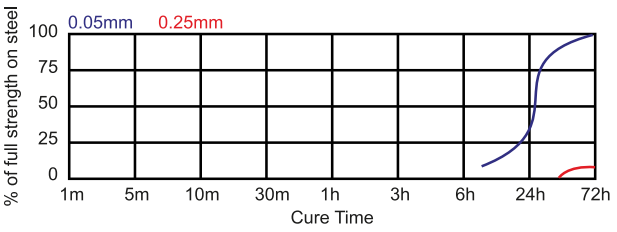
Cure Speed vs Substrate

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



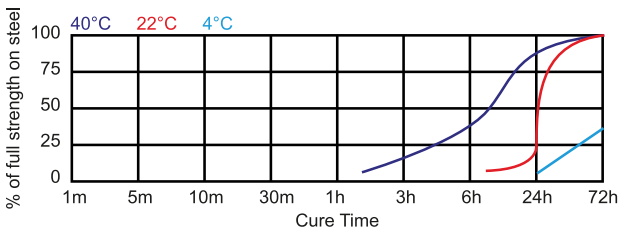
Cure Speed vs Bond Gap

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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Revision date: 01/2025 -
Revision: 04

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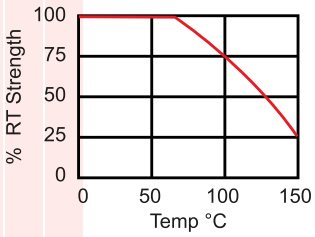
Typical Heat Resistance

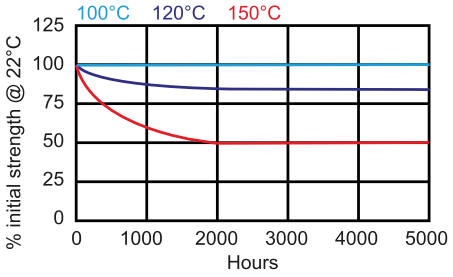
Hot Strength

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	70	70
Water/Glycol 50/50	87	100	100	100

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.

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PRODUCT SPECIFICATION

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Directions For Use:

1. For optimum performance surfaces should be clean and free of grease (internal and external).
2. The product is designed for close fitting flanged parts with gaps up to 0.25mm
3. Apply manually as a continuous bead.
4. Flanges should be tightened as soon as possible after assembly before curing.

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

Disclaimer:

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