



TDS

MXLOC[®] 565

Sealing Compound

PRODUCT SPECIFICATION

MXLOC®565

Description:

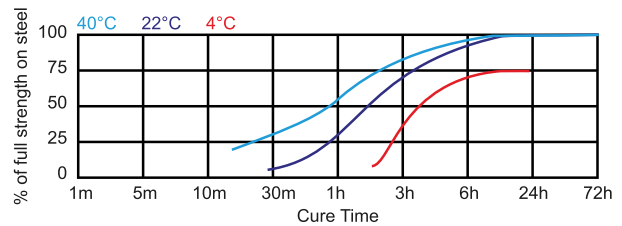
MXLOC® 565 is designed for the sealing and locking of metal fittings and pipes. The product is a single component Anaerobic, low strength, acrylic based product. The product cures when confined in the absence of air between close fitting metal surfaces which prevents leakage and loosening from vibration and shock.

Typical Properties of Cured/Uncured Material:

Uncured State Physical Properties		Uncured State Physical Properties	
Base	Acrylic	Specific Gravity @ 25°C	1.1
Colour	White Liquid	Viscosity @ 25°C	175,000 – 525,000 mPas
Chemical Form	Methacrylate ester	Flash Point	See MSDS
Cure	Anaerobic	Fixture Time	4 Hours
Fluorescence	No	Typical Performance of Cured Material	
Secondary Cure	Activator		Typical Value
Components	Single – Requires no mixing	Pressure Resistance in psi	10,000
Viscosity	High	Operating Temp °C	Typical Value
Strength	Low	(After 24hr at 20-25°C) on M10 steel nuts & bolts	-54°C - 150°C
Application	Thread Sealing	Breakaway torque, ASTM D 6396 3/8 NPT steel pipe and plugs	5 Nm

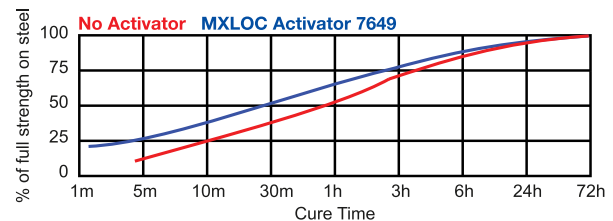
Cure Speed vs Temperature

The rate of cure is dependent on the ambient temperature. The graph below shows the breakaway strength developed with time at different temperatures on 3/8 NPT steel plugs and pipes tested according to ASTM D6396.



Cure Speed vs Activator

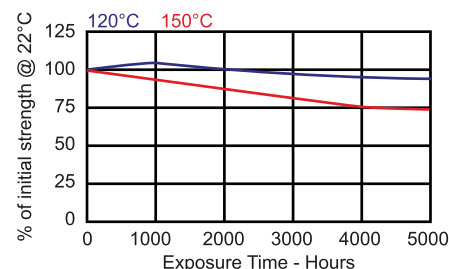
Where the cure speed is unacceptable long or large gaps are present. An activator can be applied to the surface which will improve speed. The graph to the right shows the shear strength.



Typical Heat Resistance

Heat Aging

Aged at temperature indicated and tested at 22°C



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Chemical/Solvent Resistance

Aged under conditions indicated and tested @ 22°C

Environment	°C	% of initial strength
		720 h
Motor oil (MIL-L-46152)	87	100
Unleaded Petrol	87	100
Phosphate Ester	87	100
Alcohol, Isopropyl	87	100
Brake Fluid	87	92
Air Reference	87	100
Transmission Fluid	87	100
Distilled Water	87	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.

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

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.

Revision date: 01/2025 - Revision: 04

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Disclaimer:

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