

PRODUCT DESCRIPTION

MXBON® 14574 is designed for the sealing of gaskets. 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. It seals close fitting joints between flanges and fixed metal faces and will flex with minor movement from the flange.

Technology	Acrylic
Chemical Type	Dimethacrylate ester
Appearance (uncured)	Orange paste
Fluorescence	Positive under UV
Components	One component – requires no mixing
Viscosity	High, thixotropy
Cure	Anaerobic
Application	Sealing

NSF International

Registered to NSF Category S2 for use as a sealant where there is no possibility of food contact in and around food processing areas. Note: This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

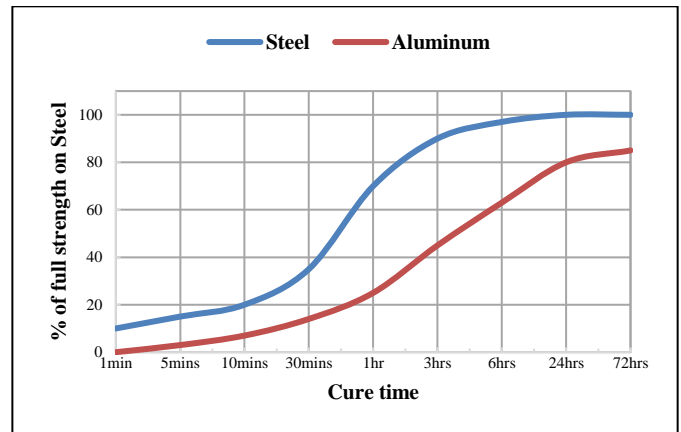
TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.1
Flash Point -	See SDS
Viscosity, Brookfield – RVT, 25 °C, mPa·s (cP)	
Spindle 6, 2.5 rpm	70,000 to 120,000
Spindle 6, 20 rpm	23,000 to 35,000
Shelf life	24 months unopened when stored at 8 to 24°C

TYPICAL CURING PERFORMANCE

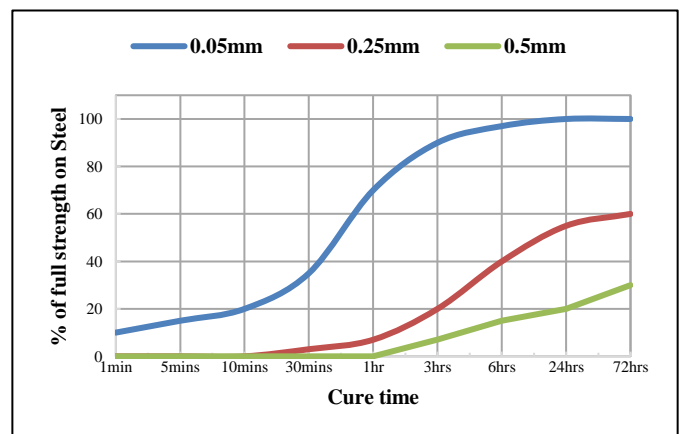
Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the shear strength developed with time on grit blasted steel lap shears compared to different materials and tested according to ISO 4587.



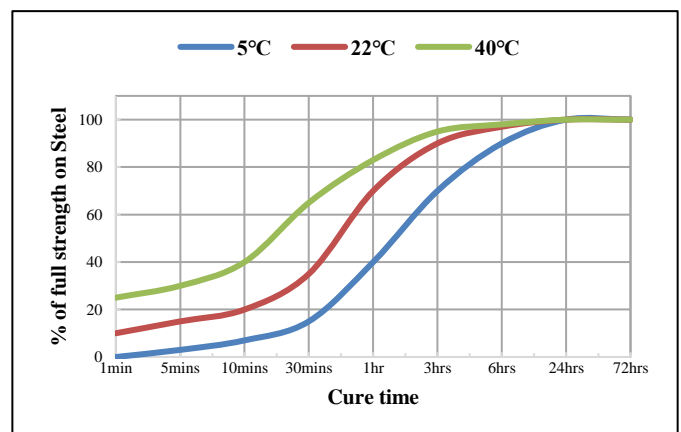
Cure Speed vs. Bond Gap

The rate of cure will depend on the bondline gap. Gaps in threaded fasteners depends on thread type, quality and size. The following graph shows shear strength developed with time on steel pins and collars at different controlled gaps and tested according to ISO 10123.



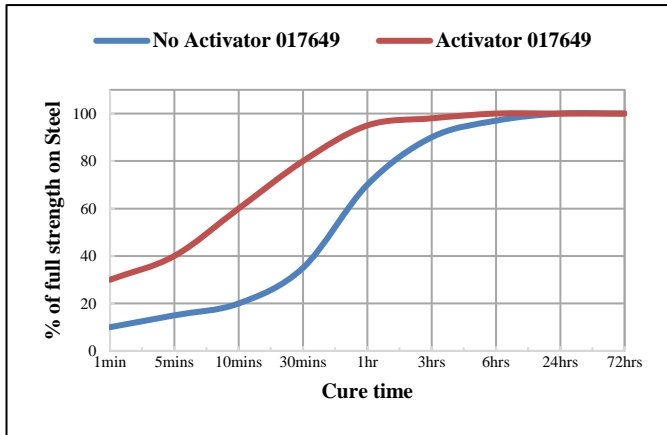
Cure Speed vs. Temperature

The rate of cure will depend on the temperature. The graph below shows the shear strength developed with time at different temperatures on grit blasted steel lap shears and tested according to ISO 4587.



Cure Speed vs. Activator

Where cure speed is unacceptably long, or large gaps are present, applying activator to the surface will improve cure speed. The graph below shows the shear strength developed with time on grit blasted steel lap shears using Activator 017649 and tested according to ISO 4587.



TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

Cured for 24 hours @ 25 °C, Compressive Shear Strength, ISO 10123:

Bonding Identical Substrate	N/mm ²	psi
Steel pins and collars	≥ 6.0	≥ 870

Cured for 24 hrs @ 25 °C, Lap Shear Strength, ISO 4587:

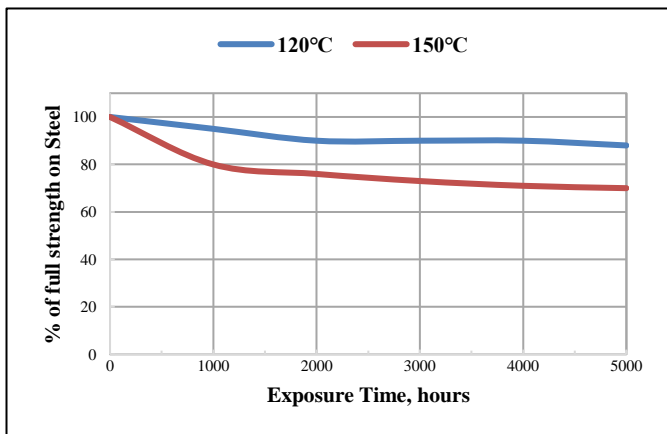
Bonding Identical Substrate	N/mm ²	psi
Steel	10.8	1565

TYPICAL ENVIRONMENTAL RESISTANCE

Cured for 1 week @ 25 °C
Lap Shear Strength, ISO 4587
Steel Specimen

Heat Aging

Aged at temperature indicated and tested @ 25 °C



Chemical/Solvent Resistance

Aged under conditions indicated and tested @ 25 °C

Environment	% of initial strength			
	°C	100h	500h	1000h
Unleaded Petrol	25	80	80	80
Water/ethylene glycol 50/50	87	80	80	75

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be use with chlorine or other strong oxidizing materials. 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. This product is not recommended for use on certain plastics. Users are recommended to confirm compatibility of the product with such substrates.

Storage & Handling precaution

Keep adhesive in a cool and dry place. The storage temperature is recommended at 8 °C to 24 °C. For details, consult the Safety Data Sheet, (SDS). Shelf life is two years from the date of manufacture in the original container under the optimal conditions.

1. Avoid contact with skin and eyes.
2. If contact with skin, rinse with water.
3. If adhesive gets into eye, keep eye open and rinse with water thoroughly. Seek medical attention immediately.
4. Keep the material out of children’s reach.

Directions for use

For assembly

1. The substrate surfaces must be clean and free of grease.
2. Shake the product thoroughly before use.
3. If the cure speed is too slow, consider using activator.
4. Apply several drops to the nut & bolt.
5. Assemble and tighten as required.
6. To prevent the clogging of the bottle nozzle, do not let the tip touch the metal surfaces during application.

For disassembly & cleanup

1. Use localized heat (250 °C) to nut and bolt, disassemble while hot.
2. Use a wire brush to clean the charred product.



Note

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