

## TECHNICAL DATA SHEET

My-T-Lok® 215  
Master Gasket  
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METLOK PRIVATE LIMITED  
(An ISO 9001 Certified Company)  
W-27, M.I.D.C. Industrial Area  
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### Product Description

My-T-Lok® 215 is a medium strength, anaerobic gasket sealant which cures when confined in the absence of air between close fitting metal surfaces. My-T-Lok® 215 seals close fitting joints between rigid metal faces and flanges and will flex with minor flange movements and provide resistance to low pressures immediately after assembly of flanges.

### Applications:

My-T-Lok® 215 used as a form-in-place gasket on rigid flanged connections, e.g. pumps, thermostats, compressors, transmission housing and axle covers.

### Properties

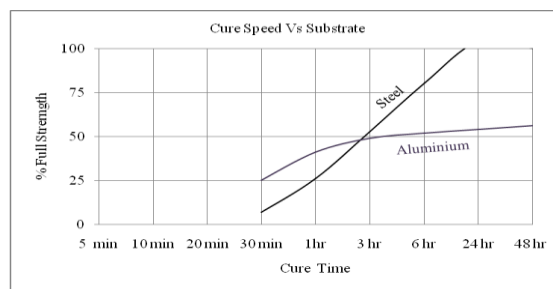
Technology	: Acrylic
Chemical type	: Dimethacrylate ester
Components	: One component
Appearance	: Dark Purple
Specific Gravity @ 25 °C	: 1.1
Viscosity @ 25 °C, Brookfield, Spindle #	: 150000 to 375000 cP
TD, Speed 5.0 rpm.	
Viscosity @ 25 °C, Brookfield, Spindle #	: 700000 to 1700000 cP
TD, Speed 0.5 rpm.	
Cure	: Anaerobic
Secondary cure	: Activator
Strength	: Medium
Service temperature	: -50 °C to 150 °C
Application	: Sealing

### Curing Performance

The product cures when confined in the absence of air between closed fitting metal surfaces. Although functional strength is developed in a relatively short time, curing continues for at least 24 hours before full chemical / solvent resistance is developed.

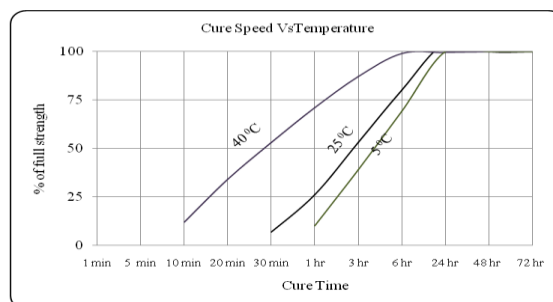
### Cure Speed Vs Substrate

The rate of cure will depend on the substrate used. The graph below shows the shear strength developed with time on steel lap shears compared to different materials and tested according to ASTM D 1002.



### Cure Speed Vs Sealing Temperature

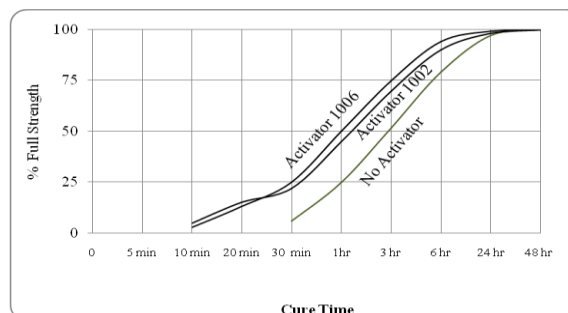
The rate of cure will depend on the ambient temperature. The graph below shows the shear strength developed with time on steel lap shears at different temperatures and tested according to ASTM D 1002.



### Cure Speed Vs Activator

Where cure speed is unacceptably long due to large gaps, applying activator to the surface will improve cure speed. However, this can trim down ultimate strength of the bond and therefore testing is recommended to confirm effect.

The graph below shows the shear strength developed with time on steel lap shears using different activators and tested according to ASTM D 1002.



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### Adhesive Properties of Cured Material

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Lap Shear Strength, ASTM D 1002; After 24 hrs @ 25±2 °C

Steel : 5-9 N/mm<sup>2</sup>

Lap Shear Strength, ASTM D 1002; After 24 hrs @ 90±2 °C

Steel : ≥ 7 N/mm<sup>2</sup>

Tensile Strength, ASTM D-897; After 24 hrs @ 25±2 °C

Steel : 10-18 N/mm<sup>2</sup>

Compressive Shear Strength, BIS 13055:1991; After 1 hour @ 25±2 °C

Steel Pins and collars : ≥ 5 N/mm<sup>2</sup>

Compressive Shear Strength, BIS 13055:1991; After 24 hours @ 25±2 °C

Steel Pins and collars : ≥ 6 N/mm<sup>2</sup>

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### Sealing Capability

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An annular shaped gasket with an inner diameter of 60 mm and an external diameter of 90 mm was tested up to 100 bars, hydraulic pressure, for pressure drop, after 24 hrs (BIS 13055:1991).

No Induced Gap : No Drop

Induced Gap;0.25 mm : No Drop

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### Hot Strength

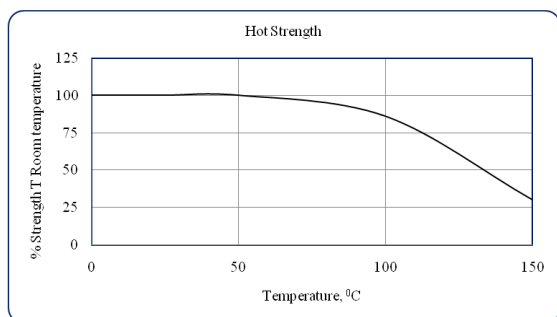
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Test : Lap Shear Strength, ASTM D 1002

Substrate : Steel

Cure : 24 hrs @ 25±2 °C

Tested at temperature indicated



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### Heat Aging

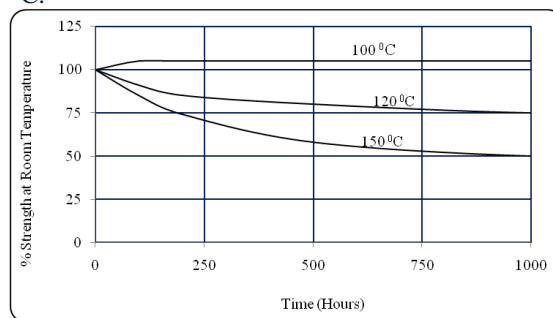
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Test : Lap Shear Strength, ASTM D 1002

Substrate : Steel

Cure : 24 hrs @ 25±2 °C

Aged at temperature indicated and tested @ 25±2 °C.



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### Chemical/Solvent Resistance

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Test : Lap Shear Strength, ASTM D 1002

Substrate : Steel

Cure : 24 hrs @ 25±2 °C

Aged under condition indicated and tested @ 25±2 °C.

Environment	Temp (°C)	% of initial strength	
		100 hr	200 hr
Engine Oil	120	100	100
Unleaded Petrol	25±2	100	100
Diesel	25±2	100	100
Gear Oil	120	100	100
Water Glycol (50/50)	87	90	65

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### Directions for Use

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1. For best performance bond surfaces should be clean and free from grease.
2. The product is designed for close fitting flanged parts.
3. Apply manually as a continuous bead to one surface of the flanges.
4. Low pressures may be used when testing to confirm a complete seal immediately after assembly and before curing.
5. Flanges should be assembled and tightened as soon as possible after assembly to keep away from shimming.
6. Clean excess adhesive.

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### Handling

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- ❖ For safe handling My-T-Lok® 215 must be handled in a manner as indicated in Material Safety Data Sheet (MSDS) and in compliance with relevant local regulations.
- ❖ My-T-Lok® 215 is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials
- ❖ My-T-Lok® 215 can affect certain plastics particularly thermoplastic materials or coatings. It is recommended to check all surfaces for compatibility before use.

- ❖ Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.
- ❖ My-T-Lok® 215 is non-volatile and non-flammable at room temperature.

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### Storage

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- ❖ Store My-T-Lok® 215 in a cool, dry location in unopened containers at 25±2°C.
- ❖ Store away from sunlight and heat sources.
- ❖ My-T-Lok® 215 will exhibit a shelf life of 18 months when stored in above mentioned conditions.
- ❖ To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact our Technical Service center R&D Center.

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### Pack Size

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My-T-Lok® 215 is ideally available in 50 ml and 250 ml pack size.

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### Note

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All statements, technical information and recommendations set forth herein are based on tests which Metlok Private Limited, believes to be reliable. However, Metlok Private Limited does not guarantee their accuracy or completeness. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In no case will Metlok Private Limited be liable for direct, consequential economic or other damages.

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