

## TECHNICAL DATA SHEET

### My-T-Bond® Fast and Clear Epoxy

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**METLOK PRIVATE LIMITED**  
(An ISO 9001 Certified Company)  
W- 27, M.I.D.C. Industrial Area,  
Kalmeshwar – 441 501, Nagpur

#### Product Description

My-T-Bond® Fast and Clear Epoxy is a two component epoxy adhesive ideal for general purpose applications. This two component epoxy adhesive cure fast at room temperature and when fully cured, the epoxy is resistant to a wide range of chemicals and solvents, and acts as an excellent electrical insulator. It is used for epoxy casting and designed specifically for encapsulation and potting.

#### Special features:

- ❖ Short pot life
- ❖ Clear appearance.

#### Applications:

- ❖ Bonding plastic, metal, glass, wood, ceramic, rubber, and masonry materials.
- ❖ Potting in various electrical component and general purpose applications.

#### Properties

Technology	: Epoxy
Components	: 2k - requires mixing
Mix ratio by weight	: 1 : 1
Part A: Part B	
Appearance	: Clear
Cure	: Room Temperature
Pot life at 25±2 °C	: 5 to 10 minutes.
(10 gm)	
Total Cure time at 25±2 °C	: 24 Hrs.
Operating temperature	: -30 °C to 150°C
Applications	: General purpose applications

#### Properties of Uncured Material

##### Component (A)

Color	: Clear
Sp. Gravity@25±2 °C	: 1.12
Viscosity, Brookfield @ 25 °C,	: 12500-20000
Spindle no. 5, Speed 20 r.p.m.	cP

##### Component (B)

Color	: Clear
Sp. Gravity @ 25±2 °C	: 1.08

#### Properties of Cured Material

Tested after 24 Hrs@25±2 °C

Hardness, Durometer-Shore D,	: 80±3
ASTM D 2240	
Tensile Strength, ASTM D 897,	: 10-15
MS-MS	N/mm <sup>2</sup>
Lap Shear Strength, ASTM D1002	: 10-15
MS-MS	N/mm <sup>2</sup>

#### Directions for use

- ❖ For best performance, clean substrates to remove dust, grease, oil etc.

#### For Hand use:

- ❖ To use, weighed separately epoxy resin (Part A) & Hardener (Part B) as per the specified quantity in the mixing ratio & mix to uniform consistency & apply.
- ❖ Mix small quantity at a time, so that the mixed material is consumed within a work life time.
- ❖ Higher temperature and large quantity will shorten work life time.

#### For use of cartridge with Dispensing gun

- ❖ Remove cap from tips. Affix static mixer.
- ❖ Insert cartridge into applicator gun.
- ❖ Pull trigger and epoxy will mix properly as it is dispensed.
- ❖ In case of lower temperature conditions, allow the material to reach between 27 to 33°C prior to application.

#### Working

- ❖ Working time and cure time depends on temperature and mass:
- ❖ The higher the temperature, the faster the cure.
- ❖ The larger the mass of the material mixed, the faster the cure.
- ❖ To speed the cure of epoxies at low temperatures:
  - Store epoxy at room temperature.
  - Pre-heat repair surface until warm to the touch.
- ❖ To slow the cure of epoxies at high temperatures:

- Mix epoxy in small masses to prevent rapid curing.
- Cool resin/hardener component(s).

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**Pack Size**

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My-T-Bond® Fast and Clear Epoxy (A+B) is available 50ml, 200gm, 2 kg pack and 10kg pack.

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**Storage and Handling**

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1. Product shall be ideally stored in a cool, dry location in unopened containers at 25±2°C unless otherwise labeled. Optimal storage is at the lower half of this temperature range.
2. My-T-Bond® Fast and Clear Epoxy will exhibit a shelf life of 6 months from the date of manufacture when stored as mentioned above.
3. 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 Centre.

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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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**METLOK PRIVATE LIMITED**

(Bonding and Sealing Solutions)

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