

## TECHNICAL DATA SHEET

### My-T-Bond® 8944

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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® 8944 is one-part, moisture cure hybrid sealant specially designed for primer less adhesion of automobile windscreen.

My-T-Bond® 8944 combines the strength of polyurethanes with the weathering resistance of silicones and represents the latest generation of high-performance sealants.

#### Features:

- ❖ Excellent adhesion to a wide range of substrates, without primer.
- ❖ High Strength
- ❖ Silicone-free, no silicone staining.
- ❖ Good extrusion, even at low temperature
- ❖ Achieving superior resistance to weather.
- ❖ Good mechanical properties
- ❖ High UV-stability
- ❖ Elasticity, remains elastic even at low temperature

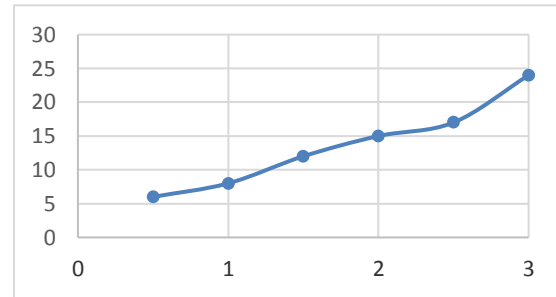
#### Applications:

Majorly used for windshield bonding in cars, buses, trucks, locomotives and other automobiles. Also used for exterior joint sealing, gap filling and seam-sealing on vehicle bodies, ventilating duct and air-conditioning. Fabricate and repair truck trailers and containers, buses, recreational vehicles, train cars, light-rail vehicles, mobile homes, refrigerated trucks, metal construction, yacht and boatbuilding, etc.

#### Cure Mechanism

My-T-Bond® 8944 cures by reaction with atmospheric moisture and catalyst. At low temperatures the water content of the air is lower and the curing reaction proceeds at a slower rate.

#### Cure Speed (hrs) vs. Thickness (mm)



#### Properties

Colour	: Black
Appearance	: Non Slump Paste
Cure	: Moisture
Viscosity @ 25±2 °C	: Thixotropic
Specific Gravity @ 25 °C	: 1.40
Corrosivity	: Non-corrosive
Operating Temperature	: - 50 to 100 °C

#### Cure Characteristics @ Room Temperature (25±2 °C) / 50±5 % RH

Skin Over Time	: 3 - 5 min.
Tack Free Time	: 8 - 10 min.
Cure Time [3mm thickness]	: 24 hrs.
Full Cure time	: 7 days

#### Properties after 7 days curing at 25±2 °C & 50±5 % RH

Hardness Durometer Shore A, ASTM D2240	: 55 ± 5
Tensile Strength, ASTM D412	: ≥ 4 N/mm²
Elongation, ASTM D412	: ≥ 400 %

#### Adhesive properties of cured material

After 7 days curing at 25±2 °C / 50±5% RH

#### Lap Shear Strength, ASTM D1002

Mild Steel	: 4 - 6 N/mm²
Aluminium	: 4 - 6 N/mm²

After 7 days curing at 25±2 °C / 50±5% RH

**Tensile Strength, ASTM D897**

Mild Steel	:	3 - 5 N/mm <sup>2</sup>
Aluminium	:	3 - 5 N/mm <sup>2</sup>

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**Chemical Resistance**

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My-T-Bond ® 8944 is resistant to fresh water, seawater, sewerage effluent, limewater, dilute acids and dilute caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohols, concentrated mineral acids and concentrated caustic solutions or solvents.

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**Directions for Use**

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1. For best performance all surfaces should be thoroughly clean with an environmentally suitable solvent to remove dirt, oil or grease.
2. Moisture curing begins immediately after the product is exposed to the atmosphere, therefore parts to be assembled should be mated within a few minutes after the product is dispensed.
3. High temperature and high humidity will accelerate the cure process; low temperature and low humidity will conversely slow the cure rate
4. The bond strength will depends on joint configuration, degree of confinement, sealant thickness and substrate porosity.
5. Minimum stress should be applied to the bonded joints until full strength is developed.
6. Cleaners and/or primers may be required to achieve optimal adhesion.
7. Excess material can be easily wiped away with non-polar solvent.

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**Storage and Handling**

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- ❖ Store the product in unopened container in a dry location.
- ❖ Shelf life twelve months from the date of manufacture when stored in an unopened container at 25±2 °C.
- ❖ Material removed from containers may be contaminated during use. Do not return product to the original container.
- ❖ Containers should always be kept sealed when not in use.
- ❖ If additional information is required, please contact your local technical service center or customer service representative.

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**Pack Size**

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My-T-Bond<sup>®</sup> 8944 is ideally available in 300ml aluminum cartridge and 600ml sausage packs.

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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 a n y 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)

An ISO 9001: 2015 Certified Company

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