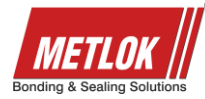


TECHNICAL DATA SHEET

My-T-Bond® 8983

September 2018



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® 8983 is an innovative, environmental friendly, one-part, moisture cure hybrid sealant. It is solvent and isocyanate free sealant.

My-T-Bond® 8983 combines the strength of polyurethanes with the weathering resistance of silicones and represents the latest generation of high-performance sealants.

Features:

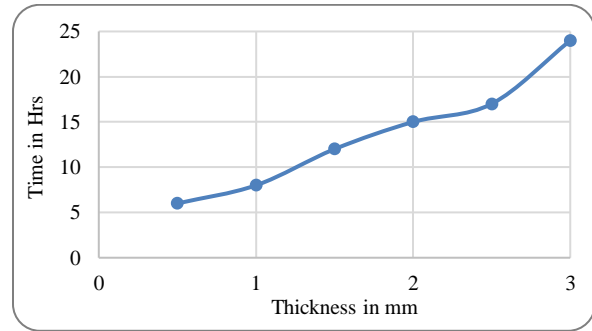
- ❖ Silicone-free, no silicone staining.
- ❖ Easy extrusion.
- ❖ No shrinking
- ❖ Achieving superior resistance to weather.
- ❖ Good mechanical properties
- ❖ High UV-stability
- ❖ Elasticity, remains elastic even at low temperature
- ❖ Over paintable with most water based paint system
- ❖ Excellent adhesion to a wide range of substrates, without primer.

Applications:

Bonding and Sealing of various substrate such as metals, plastics, glass, construction materials and other difficult to bond substrates.

Cure Mechanism

My-T-Bond® 8983 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.



Properties

Colour	: Clear / Black
Appearance	: Non Slump Paste
Cure	: Moisture
Viscosity @ 25±2 °C	: Thixotropic
Specific Gravity @ 25 °C	: 1.1±0.05
Odor	: Characteristic
Corrosivity	: Non-corrosive
Temperature range	: - 50 to 90 °C

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

Skin Over Time	: 4 - 7 min.
Tack Free Time	: 20 - 30 min.
Cure Time [3mm thickness]	: 24 hrs.
Full Cure time	: 7 days

Properties after 7 day cure @ Room temperature (25±2 °C/ RH 50±5%)

Tensile Strength, ASTM D412	: ≥ 1.25 N/mm ²
Elongation, ASTM D412	: ≥ 350 %
Durometer Hardness Shore A, ASTM D2240	: 45 - 50

Adhesive properties of Cured material

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

Lap Shear Strength, ASTM D1002

MS-MS	: ≥ 3 N/mm ²
AL-AL	: ≥ 3 N/mm ²

Tensile Strength, ASTM D897

- MS-MS : ≥ 2 N/mm²
- AL-AL : ≥ 2 N/mm²

Chemical Resistance

My-T-Bond[®] 8983 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.

Directions for Use

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.

Storage and Handling

- ❖ Store the product in unopened container in a dry location at 25±2 °C.
- ❖ My-T-Bond[®] 8983 will exhibit a shelf life of six months from the date of manufacture in an unopened cartridge when stored as mentioned above.
- ❖ 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.

Pack Size

My-T-Bond[®] 8983 is ideally available in 100gm tube and 280ml Aluminum cartridge.

Note

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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