

TECHNICAL DATA SHEET

My-T-Sil® 980 SP

Neutral RTV Silicone

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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-Sil® 980 SP is one-component neutral cure, RTV silicone for bonding and sealing purpose.

- ❖ High extrusion rate.
- ❖ Excellent Adhesion to most glass, metals, plastics such as PC, PBT, ABS, PVC, ceramics, wood, painted surfaces, concrete, etc.
- ❖ Highly flexible. Enhances load bearing & shock absorbing characteristics of the bond area.
- ❖ Excellent resistance to weathering, ozone, solar radiation and moisture.

Applications

My-T-Sil® 980 SP is used in electrical and electronic equipment, industrial components and household applications.

- ❖ My-T-Sil 980SP is a highly elastic neutral cure silicone sealant specially designed for Photovoltaic solar panel assembly.
- ❖ Especially suited for weather sealing of solar panel frames and junction box bonding.
- ❖ Widely used for sealing Electrical devices and apparatus, lamps, induction stove etc.
- ❖ Also used for LED light bonding application.

Certifications and Approvals –

- ❖ **Flammability Test:** Certified **V-1** rating as per UL-94 Standard.
- ❖ **TUV Certified.**

Product Characteristic

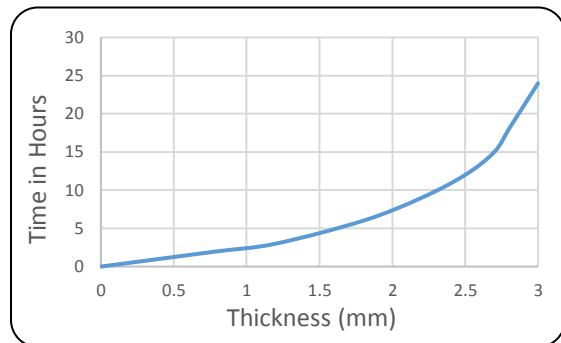
My-T-Sil® 980 SP provides the following product characteristics

Technology	: Silicone
Chemical type	: Alkoxy Cure silicone
Components	: One component
Appearance	: White
Cure	: Room temperature vulcanizing (RTV)

Service Temperature	: -55 °C to 200 °C
Application	: Bonding and Sealing
Flexibility	: Enhances load bearing & shock absorbing characteristics of the bond area.
Specific Application	: Solar panel bonding and sealing

Cure Speed vs thickness

Curing- 25±2 °C, 55 % RH



Properties

Colour	: White
Consistency	: Non-sag
Cure	: Moisture
Viscosity @ 25±2 °C	: Thixotropic
Specific Gravity @ 25 °C	: 1.6±0.02
Odour	: Low Odour
Corrosivity	: Non-corrosive

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

Skin Over Time	: 5 - 10 minutes
Tack Free Time	: 16 -22 minutes
Cure Time [3mm thickness]	: 24 hrs.

Physical properties; 3 mm strip cure for 7 days @ 25±2 °C / 50±5% RH

Hardness, Durometer Shore A, ASTM D 2240	: 30 ± 3
Tensile Strength, ASTM D412	: ≥ 1.5 N/mm ²
Elongation, ASTM D 412	: ≥ 300 %

Directions for Use

1. For best performance all surfaces should be thoroughly clean with an environmentally suitable solvent to remove dirt, oil and 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. Full properties will develop over 72 hrs.
7. Excess material can be easily wiped away with non-polar solvent.

Storage and Handling

- ❖ Store product in the unopened container in a dry, cool location at $25\pm 2^{\circ}\text{C}$.
- ❖ My-T-Sil[®] 980 will exhibit a shelf life of 6 months from the date of manufacture 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-Sil[®] 980 SP is ideally available in 280ml, 2600 ml cartridge and 20kg pail.

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

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METLOK PRIVATE LIMITED

(Bonding and Sealing Solutions)

An ISO 9001: 2015 Certified Company

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