

TECHNICAL DATA SHEET

My-T-Sil® 919

RTV Silicone

January 2020



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 919 RTV Silicone sealant is a one part neutral cure silicone material of paste-like consistency that cures to a tough, rubbery substrate when exposed to moisture in the air

Specific Features:

- ❖ Anti-Sag and weather proof
- ❖ Excellent resistance to weathering, ozone, solar radiation, moisture, vibrations & extreme temperatures conditions
- ❖ Excellent oil resistance
- ❖ Bonds metals, Galvanized steel, Aluminum, Coated steel including chrome-painted surfaces, glass, and ceramics, most plastics, PVC pipe, non-oily woods, fibrous cement, and concrete surfaces, Brick, Render. Plastics, ceramics glass, wood, painted, surfaces, concrete, natural & synthetic fibers, epoxies, silicones resins & rubber etc.
- ❖ Suitable for all the usual building and construction joints
- ❖ My-T-Sil 919 RTV Silicone Sealant can be used in applications where temperature reaches 250 °C

Product Characteristic

My-T-Sil® 919 provides the following product characteristics

Technology	: Silicone
Chemical type	: Oxime silicone
Components	: One component
Appearance	: Grey/Black paste
Cure	: Room temperature vulcanizing (RTV)
Service temperature	: -65 °C to 250 °C
Application	: Gasket and Sealant
Flexibility	: Enhances load bearing & shock absorbing characteristics of the bond area.
Specific Application	: Gasket replacement or Gasket dressing
Specific Benefit	: 1. Non-corrosive 2. Good tear strength

Applications:

For general purpose bonding and sealing:

- ❖ Primarily use for flange sealing
- ❖ Rigid flange sealing on Transmissions and cast metal housings.
- ❖ Sealing roof flashings
- ❖ Sealing lap joints in gutters, down pipes and other sheet metal components
- ❖ Sealing around roof ventilators, skylights and other penetrations
- ❖ Exterior applications
- ❖ Ideal for sealing flashings and rainwater accessories and will not corrode zinc or zinc / aluminum galvanized steel
- ❖ Use for perimeter seals around windows, curtain wall joints and other weather seal applications between metals, masonry, concrete, glass, paints and plastic substrates.
- ❖ For sealing and encapsulating heating elements in appliances, caulking sheet metal stacks, ductwork and housings, sealing pipe joints and high temperature flues or access doors.

Properties

Appearance	: Grey/Black Paste
Viscosity	: Non-slump Paste
Specific Gravity @ 25 °C	: 1.45 ± 0.05
Service Temperature, °C	: - 65 to +250

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

Skin Over Time	: 10 – 15 minutes
Tack Free Time	: 30 – 50 minutes
Cure Time [4 mm thickness]	: 24 hrs.

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

Hardness, Durometer- Shore A	: 30 - 50
ASTM-D 2240	
Tensile Strength, ASTM D 412	: 1.15 - 3.5 N/mm ²
Elongation, ASTM D 412	: ≥ 250 %

Adhesive Properties of Cured Material

After 14 days @ 25±2 °C / 50±5% RH and 0.5 mm gap
Lap Shear Strength, ASTM D 1002

Mild steel	: 1.1 to 2.5 N/mm ²
Aluminum	: 0.1 to 0.7 N/mm ²
Zinc dichromate	: 0.7 to 1.7 N/mm ²

Environmental Resistance

The product retains effective properties in contact with automotive fluids, such as motor oil, transmission fluids, and alcohol and antifreeze solutions.

Directions for Use

1. My-T-Sil® 919 is supplied ready for use. It can be readily squeezed from its cartridge and easily tooled.
2. For best performance bond surfaces should be clean and free from grease.
3. Remove excess sealant immediately with a cloth dampened with non-polar solvents.
4. Full properties will develop over 72 hrs.
5. 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.
6. Press or firmly clamp parts together. Do not slide parts together.
7. Excess cured material can be removed with a knife or sharp single edge razor blade. Avoid undercutting the seal.

Storage and Handling

- ❖ Store My-T-Sil® 919 in a cool and dry location in unopened containers at 25±2°C.
- ❖ Keep away from moisture, direct sunlight & heat.
- ❖ My-T-Sil® 919 will exhibit a shelf life of six months from the date of manufacture when stored as mentioned above.
- ❖ To prevent contamination of unused product, do not return any material to its original container.
- ❖ Containers should always be kept sealed when not in use.
- ❖ After a container has been opened a plug of cured material may form in the nozzle during storage.
- ❖ When ready to re-use, unscrew the nozzle and remove the cured plug. The remaining sealant is ready to use.
- ❖ If additional information is required, please contact your local technical service center or customer service representative.

Pack Size

My-T-Sil® 919 is ideally available in 100 ml tube, 280 ml cartridge and 20kg bucket/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 Metlok Private Limited be liable for direct, consequential economic or other damages.

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