

**Description**

**TIC 7100 RTV Silicone Sealant** is a single part, paste typed material.

**TIC 7100 RTV Silicone Sealant** can be applied overhead or sidewall joints when applying, because it maintains its state and does not flow itself.

**TIC 7100 RTV Silicone Sealant** cures to a firm, rubbery solid and it will adhere to metal, glass, wood, silicone resin, silicone rubber, ceramic, natural and synthetic fiber, and painted and many plastic surfaces.

**TIC 7100 RTV Silicone Sealant** is not affected by UV radiation and resistant to vibration, moisture, and weathering.

**TIC 7100 RTV Silicone Sealant** is used with any standard caulking gun.

**TIC 7100 RTV Silicone Sealant** contains no asbestos, lead, mercury, or mercury compounds.

**Properties**

Property	Specification	Test method
Color	Clear, Black, Gray	TSTM-01
Application	Trowel, caulking gun, or extrusion equipment	TSTM-06
Density	1.02 ± 0.05 Kg/ℓ	ASTM D 1475
Volume non-volatile	≥ 95 %	ASTM D 1644
Weight non-volatile	≥ 96 %	ASTM D 1644
Coverage	Trowel 1.72 Kg/m <sup>2</sup> (1.68 ℓ/m <sup>2</sup> )/ Dried film thickness : 1.6 mm	TSTM-07
Drying time	Set to touch: ≤ 10 minutes (25±2°C, 50±2% RH) Dry through: 1 days(2 mm)	ASTM D 1640
Service temperature limits	(Temperature at coated surface) -50 °C ~ 150 °C (-58 °F ~ 302 °F)	TSTM-04
Hardness	≥30 cured (Shore A)	ASTM C 661
Elongation	≥ 300 %(Max 500%)	ASTM D 412
Tensile strength	≥ 1.5 MPa(Max 2.5Mpa)	ASTM D 412
Flow rate	Slump < 1 mm	-

**Limitations**

Store and apply between 4 °C (40 °F) and 38 °C (100 °F).

**Application**

**Material Preparation**

All surfaces should be clean and free of dirt, dust, debris and any oils and grease prior to application. Clean with solvent or alcohol if needed except plastic. Wipe after with clean damp rag.

**Application**

1. Cut tip off cartridge just above threads. Screw on nozzle and cut on 45° angle to desired bead size. Insert cartridge into standard caulking gun.
2. For a smooth seal, hold at 45° angle and apply by pushing sealant ahead of nozzle.
3. To ensure good adhesion, all surfaces should be clean and free of dust, oil, loose materials or any other substances.
4. Make sure that TIC 7100 RTV Silicone Sealant makes complete contact with the entire surface of the opening and also the surface of the penetrating items.
5. Always follow cartridge directions. For large openings, Polyethylene can be used as a backer to help hold the product in place until cured, it should be 3~4mm wider than joint width, and install in constant depth without any hole.
6. Masking tape should be removed before the tack-free skin forms.

**Clean-up**

Direct contact of uncured sealant irritates eyes and may irritate skin. Overexposure to vapor may irritate eyes, nose and throat. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water. Keep out of reach of children.

The surface of the silicone sealant would not be painted or colored. Vulcanized rubber containing sulfur, painted object, EPDM, chloroprene rubber may occur discoloration.

**Note**

**Important:** We make no other warranties and expressly disclaim any warranties of merchantability or fitness for a particular purpose. If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at our option, refund of the purchase price. Our acceptance of any orders for the product is expressly conditional upon purchaser's assent to the terms on the applicable invoice.

**Adequate Tests:** The information contained herein we believe is correct to the best of our knowledge and tests. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that adequate tests be performed by you to determine if this product meets all of your requirements. The warranted shelf life of our products is six months from date of shipment to the original purchaser.

**TIC CORPORATION**

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**Rev 3.1**