

## Technical Data Sheet

Chemtools® Pty Ltd | Ph: 1300 738 250 (+61 2 9833 9866) | Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760  
Safety Data Sheets, product photos, and other information can be obtained by visiting [www.chemtools.com.au](http://www.chemtools.com.au)



# Rapidstick™ RS-80 Hi Temp Gasket Maker

PART NUMBER	COLOUR	AVAILABLE SIZE*
8-RS80BK-200	Black	200ml Auto-Dose Cartridge
8-RS80GY-200	Grey	200ml Auto-Dose Cartridge
8-RS80RD-200	Red	200ml Auto-Dose Cartridge

\*Available colours and/or sizes may change without notice.

### DESCRIPTION

Rapidstick™ RS-80 is a new generation low odour RTV (Room Temperature Vulcanising) high temperature gasket making sealant which provides a reliable, long lasting seal for demanding applications with extreme temperatures and/or high thermal cycling. It retains its flexibility up to 300°C and is resistant to oil, water, and most chemicals. As a neutral silicone, it will not release any acid and can be applied on sensitive metals and most non-primed surfaces for a variety of automotive, industrial, and marine applications.

RS-80 is packaged in our unique, easy to dispense, 200ml Auto-Dose cartridge and is available in Red, Grey, and Black.

### FEATURES & BENEFITS

- ✓ New generation neutral silicone
- ✓ Resistant to oil, water and most chemicals
- ✓ Non-corrosive
- ✓ Cures quickly at room temperature
- ✓ Helps prevent damage to sensitive components
- ✓ Easy application Auto-Dose nozzle included
- ✓ Wide temperature range: -60°C to 300°C
- ✓ Low odour
- ✓ Adheres to most non-primed surfaces
- ✓ Retains flexibility to reduce the potential for leaks
- ✓ Excellent for both indoor and outdoor applications
- ✓ Available in Black, Grey and Red colours

### COMPATIBLE SURFACES

- ✓ Most plastics
- ✓ Mirrors, glass, and laminated surfaces
- ✓ All metal types, incl. ferrous, non-ferrous, soft, and coated
- ✓ Timber and wood
- ✓ Drywall and plaster
- ✓ Porcelain and ceramics

### COMMON APPLICATIONS

- ✓ Engine and transmission gaskets, including oil pans, and valve, timing, and differential covers
- ✓ Engine water pump gaskets
- ✓ Exhaust system gaskets, including the exhaust manifold and catalytic converter
- ✓ Sealing of electrical connections to protect from moisture and contaminants
- ✓ HVAC systems, including air conditioning units and refrigeration systems
- ✓ Non-submerged marine applications, including sealing boat engines and gasket creation for boat hulls

### PRODUCT LIMITATIONS

- Not suitable for use on porous surfaces, including natural stone and concrete
- Not suitable for application areas which will be submerged in water
- Not suitable for joints requiring painting
- Adhesion loss may be seen on surfaces which bleed grease, solvents, or plasticisers as time passes

### APPLICATION

**NOTE:** Prior to application, ensure all surfaces are clean and free of oil, grease, and other contaminants. Use a high quality degreaser, such as Chemtools® AutoChem™ Heavy Duty Engine Degreaser (Part No: CT-EDG-300) or AutoChem™ Heavy Duty Brake & Parts Cleaner (Part No: CT-BC-500) for a thorough clean.

1. Squeeze a small amount of RS-80 onto one part, starting in the upper corner. Using a steady hand, apply an even, consistent, and continuous bead around the entire surface area. Avoid dispensing lumps or blobs as this will make spreading the product difficult at the next step.

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2. Using a putty knife or plastic scraper, evenly spread the product across the surface, ensuring coverage is of uniform thickness for a tighter gasket after cure.
3. Position the other part directly above the surface and visually line it up before carefully lowering it onto the sealant. Make sure that both parts are aligned properly and that no sealant overflows the joint.
4. Tighten the bolts or screws to the manufacturer's recommended torque specifications. This will ensure an even compression and a properly sealed joint.
5. Allow to cure at room temperature for the recommended time. Do not leave in an air-tight or tightly enclosed space (such as a storage room or cupboard) as the product reacts to atmospheric moisture (humidity) in order to cure.

Do not use the part until fully cured (at least 24 hours).

### TECHNICAL DATA

Cure System	Neutral (atmospheric moisture curing)
Material	Silicone polymer
Appearance	Clear, smooth, non-grainy, no agglomeration
Density	1.05 ± 0.02 g/cm <sup>3</sup>
Coverage	200ml Auto-Dose cartridge seals approx. 6 meters with a 6mm bead
Recommended Application Range	5°C to 40°C
Service Temperature	-60°C to +300°C
Tack-Free Time	10 minutes
Cure time	24 hours at room temperature
Tensile strength	350 psi
Elongation	450%
Hardness	25 Shore A
Chemical Resistance	Resistant to most automotive fluids and chemicals (after full cure)
Application	Can be used on metal, plastic, and painted surfaces
Storage	Store in a cool, dry place away from direct sunlight
Recommended Storage Temperature	10 to 25°C (do not exceed 45°C)
Shelf Life (unopened)	12 months minimum when stored continuously in cool, dry conditions

Note: Application of the sealant at -10°C is permissible provided the surface to receive the silicone is dry and free of frost. The maximum service temperature listed is for transient temperature; the silicone sealant will deteriorate if subjected to these temperatures on a continuous basis.

### FIRST AID & SAFETY PRECAUTIONS

**Always refer to Safety Data Sheet/s before use.** Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

### STORAGE & TRANSPORT

**Refer to Safety Data Sheet/s for recommendations.** As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 45°C. Containers should be secured and stored upright during transit.

### DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.