



TECHNICAL DATA SHEET



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DESCRIPTION

Loctite® Red RTV Silicone is used for gasketing and sealing applications for both plant maintenance and small, medium, and large-sized OEM. It cures on exposure to moisture in the air to form a tough, flexible, silicone rubber gasket. It resists aging, weathering and thermal cycling without hardening, shrinking or cracking. It resists temperatures up to 600°F (316°C).

RECOMMENDED FOR:

As a formed-in-place gasket/sealant, Loctite® Red RTV Silicone has been designed to give outstanding performance in typical automotive gasketing applications including valve covers, rocker covers, oil pans, water pumps, end seals, intake manifolds, and rear axle housings. This product is also used as a sealant and adhesive for assembly and repair of industrial furnaces, ovens, boilers, exhaust stacks, high temperature ducting, and heating elements in electrical appliances.

LIMITATIONS:

- Not paintable.
- The curing process can cause corrosion to some surfaces. Not for use on brass, copper, magnesium, iron, zinc or galvanized metals.
- Not for use on polyethylene, polypropylene, polytetrafluoroethylene, polymethylmethacrylate, polycarbonate, PVC or Teflon™.
- Not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.
- Do not use for gasketing carburetors or fuel control devices where it will be in constant contact with hydrocarbon fuels. Material will develop excessive swell and loss of mechanical properties.

FEATURES & BENEFITS:

Feature	Benefits
Extreme temperature resistance.....	Can be used in applications with an operating range of -75°F (-59°C) to 600°F (316°C)
Resists aging, weathering and thermal cycling without hardening, shrinking or cracking	One-time application; Long term durability
Will not foul oxygen sensors and is resistant to most auto and shop fluids.....	Ideal for automotive and industrial applications
Forms a flexible bond.....	Can be used to make any size gasket



Item #	Package	Size
1288770	Carded tube	2.7 fl. oz. (80 mL)

DIRECTIONS

Tools Typically Required:

Utility knife, paper towel or tooling device.

Safety Precautions:

Apply and cure in a well-ventilated area. Wear gloves and wash hands after use.

Preparation:

Use between -35°F (-37°C) and 140°F (60°C). Surfaces must be clean, dry and free of old caulk, grease, dust and other contaminants. For best results, clean and dry all surfaces with a residue-free solvent. Complete preparatory work before opening sealant. Remove cap. Puncture inner seal with other side of cap. Attach nozzle and cut to desired bead size. Gaskets are best formed using a 1/16" to ¼" bead.

Application:

As an adhesive or gasket: Apply a continuous and even bead of silicone to one surface. Assemble parts immediately. Remove excess with a knife at once.

As a sealant: Hold the tube at an angle and apply by pushing the material ahead of the nozzle. Apply enough sealant to contact both surfaces of the crack. Do not use in joints deeper than 1/2" without the use of proper backer rod. Use in joints between 1/4" and 3/4" wide. To further shape or smooth the bead, use a dry paper towel. Complete within 5 to 10 minutes and immediately remove excess with a dry paper towel.

Silicone is tack-free in approximately 30 minutes and fully cures in about 24 hours. Replace cap after use.

Clean-up:

Clean tools and adhesive residue immediately with mineral spirits. Cured sealant may be carefully cut away with a sharp-edged tool.

STORAGE AND DISPOSAL

Store product in the unopened container in a dry location. Optimal storage conditions are 46°F (8°C) to 70°F (21°C). Not damaged by freezing. Use an approved hazardous waste facility for disposal.

LABEL PRECAUTIONS

CAUTION: Uncured sealant causes eye and skin irritation. Acetic acid, which irritates eyes and respiratory tract, is released during curing. In case of skin contact, wipe off and wash with soap and water. In case of eye contact, flush with water for 15 minutes; call a physician immediately. If this product is used in an industrial workplace, consult the MSDS available from your distributor before use.
KEEP OUT OF THE REACH OF CHILDREN.

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Red	<u>Application Temperature:</u>	-35°F (-37°C) to 140°F (60°C)
<u>Appearance:</u>	Non-slumping paste	<u>Odor:</u>	Acetic acid (use in a well-ventilated area)
<u>Base:</u>	Acetoxysilicone	<u>Working Time:</u>	5 to 10 minutes
<u>Specific Gravity:</u>	1.05	<u>Tack-Free Time:</u>	(T = 77°F (25°C), 50 ± 5% RH) 30 to 60 minutes
<u>Shelf Life:</u>	12 months from date of manufacture (Unopened)	<u>Full Cure Time:</u>	24 hours Cure time is dependent on the temperature, humidity and amount of product used. Allow product to cure at least 7 days before subjecting to heavy service loads.
<u>VOC Content:</u>	32 g/L (3.08% by weight)	<u>Extrusion Rate:</u>	(P = 0.62 Mpa, T = 77°F (25°C), 1/8" nozzle) ≥ 250 g/min
		<u>Gap Filling:</u>	Up to 1/4"

Typical Cured Performance Properties

<u>Color:</u>	Red
<u>Service Temperature:</u> Intermittent:	-75°F (-59°C) to 600°F (316°C)
<u>Waterproof:</u>	Yes, once fully cured.
<u>Environmental Resistance:</u>	Loctite® Red RTV Silicone Sealant retains effective properties in contact with automotive fluids such as motor oil, transmission fluids, alcohol and antifreeze solutions. Note: Not recommended for parts in contact with gasoline.
<u>Paintable:</u>	No, silicone will not accept paint.
<u>Shore Hardness:</u> (ISO 868, Durometer A)	<u>7 days @ 77°F (25°C), 50% R.H.</u> ≥ 18
<u>Elongation (ISO 37):</u>	≥ 300%
<u>Tensile Strength (ISO 37):</u>	1.5 N / mm ² or 217 psi
<u>180° Peel Strength:</u> Aluminum Steel	<u>14 days @ 77°F (25°C), 50% R.H.</u> 1.73 N / mm or 9.88 lb / in 1.73 N / mm or 9.88 lb / in