

rojo

INDUSTRIAL

300 ml

# RTV 100, high temperature

#### acetic

*RTV 100,* is an acetic curing silicone sealant, resistant to high temperatures. Cure at contact with humidity and ambient temperature, produce a durable seal resistant to several temperatures, with a wide range of applications in automotive industry.

### **Product Data**

PROPERTIES	VALUE	<b>TEST METHOD</b>
Chemical base	Acetic Silicone	
Aspect	Soft Paste	
Skin over time	20-25 minutes max. (77 °F and 50% HR)	ASTM C-679-87
Density	1.02 g/cm <sup>3</sup>	ASTM-D1475-98
VOC	<30 g/L	
Curing ratio	2 mm/day (77 °F and50% HR)	ASTM D-1640
Application temperature	-40 °F to 140 °F	
Constant work temperature	-76 °F to 428 °F (red) -76 °F to 356 °F (colors)	
Intermittent work temperature	-76 °F to 500 °F (red) -76 °F to 428 °F (colors)	
Elongation	>650%	ASTM D-412-98a
Tensile strength	16.50 kgf/cm <sup>2</sup>	ASTM D412-98a
Hardness Shore A	20-23	ASTM C661-98
Movement capacity	±25%	ASTM-C-719
UV resistance	Excellent	ASTM-G-154
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Information obtained from laboratory tests

### Uses

**RTV 100** has been designed for:

- Elastic joints or bonding that require to be waterproof and durable in smooth materials.
- Joints in cap of distribution chain, oil filter covers.
- Joints in covers of valve lifters, water and oil pumps.
- Installation of heating, air conditioning and inlets of cables in conductors.
- Seals exposed at high temperatures.

### **Advantages**

- Resist high temperatures, 428 °F in continuous periods and up to 500 °F in short periods (red)
- Durable and resistant in extreme temperature conditions.
- Excellent adhesion to metals and for industrial machinery repairs.
- Fast film formation.

## Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil, water and old sealant. Smooth surfaces (like glass, metal, etc.) it shall be done a cleaning with two cleaning clothes, consisting in passing a (lint free) cleaning clothe impregnated with isopropyl alcohol, and removing immediately all the impurities with a clean and dry cleaning clothe. Place a masking with masking tape on the surfaces to limit the area to be sealed. Introduce RTV 100 in a caulk gun, cut the upper part of the cartridge, then place the pipette and cut at 45° calculating the width of the joint to be sealed. Pull the trigger to press the piston and the product will flow on the joint. Apply the sealant like a cord on the surface to be sealed. It shall be left minimum a section of 6 x 6 mm and maximum 25 mm. Then pass again in opposite direction of the first application, with a curved spatula to penetrate in the joint as necessary, for better adhesion and to break the air bubbles that may be trapped during the application, at the end of application remove the masking in opposite direction to application in a continuous but controlled movement. The excess could be removed before curing with a cloth dampened in isopropyl alcohol. Depending on use, the application may change.





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### **Recommendations**

- Perform tests under actual application conditions to guarantee its proper operation.
- Do not apply in wet surfaces o materials in curing process.
- To form a proper joint of the sealant and prevent the adhesion to a third surface, it is recommended to be used as a support for polyolefin cylindric extrusion *SOF Rod* or polyethylene *HBR* (see technical sheet).
- The ratio between width and depth for joints of 6 mm and up to 10 mm width will be 1 to 1 (width = depth) and in joints larger than 10 mm and up to 25 mm, it will be of 2 to 1 (depth = width/2).

### Maintenance

- It does not require any maintenance, however.
- If the seal is damaged, replace the damaged section, cleaning the surface before applying the new seal.

### **Precautions**

- The non-cured product could cause eyes and skin irritation with prolonged contact. In case of discomfort, wash thoroughly with water for 15 minutes and seek medical advice immediately.
- The sealant shall not be applied in completely close area, (due it is required relative humidity for vulcanization).
- Keep out of the reach of children.

### Limitations

- In continuous immersion in water.
- The surfaces that will be painted later.
- In carburetors.
- In contact with rubber like neoprene or EPDM due they could become yellow.

Presentation	Coverage	Shelf Life	Technical Support
Packaging and Colors	A cartridge yields 7.75 m, in joints of 6 x 6 mm, considering 7% waste.	18 months kept in a fresh and dry storage, in its	Productos Pennsylvania's Technical Support is at your service, assisting you with:
• Black • Black • Red • Red • Gray*		(70 °F) temperature and 50% of atmospheric moisture.	Guidance in how to apply this or any of our products.
			Blueprint reviews.
30			Joint dimension calculus.
			Compatibility and adhesion testing of
			our sealants with different materials.

#### NOTE:

**Productos Pennsylvania S.A de C.V.** provides technical assistance when required. Please contact our Technical Department regarding use and application of this product. It is the user's responsibility to test the product and its uses before application.

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