

RTV 200, food grade

acetic

Technical Data Sheet

RTV 200 is a single component silicone sealant of acetic curing, designed for applications where there are food processes or storage. Once the product cures, takes properties of flexible and lasting rubber.

Product Data

PROPERTIES	VALUE	TEST METHOD
Chemical basis	Acetic Silicone	
Aspect	Soft Paste	
Skin over time	18-23 minutes max. (77 °F and 50% HR)	ASTM C-679-87
Density	1.02 g/cm ³	ASTM-D1475-98
VOC	<30 g/L	
Curing ratio	1-6 mm/day (77 °F and 50% HR)	ASTM D-1640
Application temperature	-22 °F to 122 °F	
Working temperature	-76 °F to 428 °F	
Elongation	>650%	ASTM D-412-98a
Tensile strength	16.50 kgf/cm ²	ASTM D412-98a
Hardness Shore A	20-23	ASTM C661-98
Movement capacity	±25%	ASTM-C-719
UV resistance	Excellent	ASTM-G-154

Information obtained from laboratory tests.

Uses

RTV 200 has been designed for:

- Joints of smooth surfaces.
- Joints in food industry or applications with requirements of FDA and NSF.
- Seals of sheet joints inside commercial refrigerators and freezers.

Advantages

- Comply with FDA/NSF approval.
- Fast curing.
- Does not drip.
- Low temperatures resistant.

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 cloth impregnated with isopropyl alcohol, and removing immediately all the impurities with a clean and dry cleaning cloth. Place a masking with masking tape on the surfaces to limit the area to be sealed. Introduce **RTV 200** 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.



Recommendations

- Perform tests under actual application conditions to guarantee its proper operation.
- Do not apply in wet surfaces or 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 contact with rubber like neoprene or EPDM due they could become yellow.
- In contact with natural stones, like granite and marble, etc.
- In places subject to continuous immersion in water.
- In direct contact with metals such as zinc, lead, copper, etc., due it could generate corrosion.
- For surfaces that will be painted later.
- In porous surfaces.

Presentation

Packaging and Colors



- White
- Transparent

Coverage

A cartridge yields 7.75 m, in joints of 6 x 6 mm, considering 7% waste.

Shelf Life

18 months kept in a fresh and dry storage, in its original packaging at a 21 °C (70 °F) temperature and 50% of atmospheric moisture.

Technical Support

Productos Pennsylvania's Technical Support is at your service, assisting you with:

Guidance in how to apply this or any of our products.

Blueprint reviews.

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.

Productos Pennsylvania, S.A. de C.V.

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