

# pens® silicone100% general purpose

acetic

Technical Data Sheet

**pens® silicone100% general purpose** is a silicone sealant for smooth joints, of single component that cures fast in contact with humidity of the environment, producing a durable and economic silicone rubber. Developed for the aluminum/glass industry and at residential level.

## Product Data

PROPERTIES	VALUE	TEST METHOD
Chemical base	Acetic Silicone	
Aspect	Soft Paste	
Skin over time	10-15 minutes (77 °F and 50% HR)	ASTM C-679-15
Curing Rate	1.6-2 mm/day (77 °F and 50% HR)	ASTM D-1640-14
Density	1.01-1.02 g/ml	ASTM-D1475-13
Application temperature	-22 °F to 122 °F	
Service Temperature	-40 °F to 248 °F	
Elongation	Aprox. 450 %	ASTM-D-412-16
Tensile Strength	Aprox. 234.68 lbf/in <sup>2</sup>	ASTM-D-412-16
Shore A Hardness	20-25	ASTM- C-661-15
Movement Capability	±25%	ASTM-C-719-14(19)
U.V. Resistance	Excellent	ASTM-G-154-16

Information obtained from laboratory tests.

## Uses

**pens® silicone100% general purpose** has been designed for:

- Seal glasses of residential windows.
- Elastic, airtight, weatherproof and durable seals or bondings between smooth materials.
- Seals between aluminum, glass, porcelain ceramic, copper, tiles, etc.
- Seals of showcases, electronic equipments, home fish tanks, etc.
- Repair of small gas and water leaks (it is recommended to keep the tap closed until the sealant vulcanize completely).

## Advantages

- It has the best characteristics of curing time and consistency of the market.
- Easy application and fast film formation.
- Excellent movement capacity.
- Offers excellent adhesion to dry surfaces free of dust.
- Low VOC (Volatile Organic Compounds) level (comply with LEED standards).
- Comply the LEED standards.
- The presentation in depressible tube is ideal for home use.

## Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil, water and old sealant. The cleaning of 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 **pens® silicón 100% general purpose** 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 sealant shall not be applied in completely close area, due it is required relative humidity for vulcanization.
- 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.
- Keep out of the reach of children.

## Limitations

- In floor joints.
- In porous materials.
- In surfaces that will be painted later.
- Used as structural sealant.
- In butt joints between laminated or specialty glass and plastics.

## Presentation

### Packaging and Colors



- Beige
- White
- Champagne
- Bone-white
- Black
- Transparent



- Transparent

## Coverage

A cartridge yields 7.23 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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