



# ferresilicon®

acetic

Technical Data Sheet

**ferresilicon®** is a single component silicone sealant that cure fast in contact with environment humidity, producing durable and economic silicon rubber.

## Product Data

PROPERTIES	VALUE	TEST METHOD
Chemical base	Acetic Silicone	
Aspect	Soft Paste	
Skin over time	13-15 minutes (77 °F and 50% HR)	ASTM C-679-15
Curing Rate	2 mm/day (77 °F and 50% HR)	ASTM D-1640-14
Density	0.90-0.95 g/ml	ASTM-D1475-13
VOC	<30g/L	
Application temperature	14 °F to 113 °F	
Service Temperature	-4 °F to 203 °F	
Elongation	Aprox. 400 %	ASTM-D-412-16
Tensile Strength	Aprox. 214.91 lbf/in <sup>2</sup>	ASTM-D-412-16
Shore A Hardness	18-20	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

**ferresilicon®** has been designed for:

- Seal windows glasses.
- Airtight, weatherproof and lasting seals or bindings between smooth materials.
- Seals between aluminum, glass, porcelain ceramic
- Seals of showcases and ceramic elements.
- Seals of domestic medium fish tanks.
- Repair of small gas leaks (it is recommended to keep closed the gas tap until it completely vulcanizes).

## Advantages

- Easy application and fast film formation.
- Great movement capacity.
- Offers excellent adhesion to dray surfaces free of dust.
- Low VOC (Volatile Organic Compounds) level.
- Comply the LEED standards.

## 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 **ferresilicon®** 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 wet surfaces.
- As adhesive for mirrors, due it stains the silver.
- In applications that will be paint later.
- Use as structural sealant.
- Use with speciality glass.

## Presentation

### Packaging and Colors



- White
- Black
- 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.

Camino a San José 1, Fracc. San Pablo Tecnológico, C.P. 76150, Querétaro, Qro. México

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the caulking expert

