

pens® construction II

neutral

Technical Data Sheet

pens® construction II is a single component silicone of neutral curing specially designed for general glazing with excellent weather resistance, which allow preserving its elastomeric and adhesive properties for a long time.

Product Data /pens® construction II (translucent)

PROPERTIES	VALUE	TEST METHOD
Chemical base	Neutral	
Aspect	Soft paste	
Skin over time	25 minutes (73.4 °F, 50% RH)	ASTM-C-679-15
Curing Ratio	3 mm/day (73.4 °F, 50% RH)	ASTM D-1640-14
Density	1.02 to 1.03 g/ml	ISO 1183-1A
Application temperature	41 °F to 104 °F	
Service Temperature	-40 °F to 302 °F	
Elongation	Aprox. 300 %	ISO 8339A
Tensile Strength	Aprox. 101.52 lbf/in ²	ISO 8339A
Shore A Hardness	Aprox. 24	ISO 868
Movement Capability	±25%	ISO 11600
U.V. Resistance	Excellent	ASTM-G-154-16

Information obtained from laboratory tests.

Product Data /pens® construction II (color)

PROPERTIES	VALUE	TEST METHOD
Chemical base	Neutral	
Aspect	Soft paste	
Skin over time	3-4 hours (71.6 °F, 50% RH)	ASTM-C-679-15
Curing Ratio	1-1.5 mm/day (71.6 °F, 50% RH)	ASTM D-1640-14
Density	1.38 to 1.40 g/ml	ASTM-D1475-13
VOC	120 wt%	WPSTM C1454
Application temperature	39.2 °F to 122 °F	
Service Temperature	-54.4 °F to 249.8 °F	
Elongation	<815%	ASTM-C-1135
Tensile Strength	>28 lbf/in ²	ASTM-C-1135
Shore A Hardness	22	ATSM-D2240-15
Movement Capability	50%	ASTM-C-719-14
U.V. Resistance	Excellent	ASTM-G-154-16

Information obtained from laboratory tests.



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SIN-04

12-10-2023 (replaces all previous ones)

pens® construction II



Uses

pens® construction II has been designed for:

- Weather seals in openings in works.
- Seals in butt joints in structural glazing.
- Seal in planar, suspended and integral facades.

Advantages

- Great movement capacity.
- Excellent adhesion in aluminum.
- Does not release acetic acid.
- It adheres to most of construction materials.
- Low odor.
- Adhesion to porous surfaces.
- Compatible with all type of glass including specialty glasses.
- Allow proper time for passing again.
- Low VOC (Volatile Organic Compounds) level.

Application

The surfaces to be sealed shall be firm, dry, clean free of dust, grease, oil, water and old sealant. Porous surfaces shall be cleaned with brush or applying compressed air to remove all loose particles. In case 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® construction II** 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 suffers any damage, clean the surface before applying and replace the damaged section with new sealant.

Precautions

- Sealant must not be applied in closed areas for it needs atmospheric moisture to vulcanize.
- Uncured product can cause irritation in eyes and skin if exposed for too much time. If bother persists, rinse generously, passed 15 minutes consult with a doctor.
- Do not leave in children's reach.

Limitations

- It is not used as structural adhesive or sealant.
- In applications subject to continuous immersion in water.
- It is not paintable.

Presentation

Packaging and Colors



- Aluminum
- White
- Black
- Transparent



- Aluminum
- Black
- White*

*Presentation in sausage only by request, consult colors and fabrication minimum

Coverage

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

A sausage yields 15.5 m, in joints of 6 x 6 mm, considering a 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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the caulking expert

