

pens[®] construcción II

technical data sheet · neutral

pens[®] construcción II is a one component, neutral cure silicone sealant specially designed for general glazing. It possesses an excellent weathering resistance, which allows it to keep its elastomeric and adhesive properties for a long term.

Product Data

pens[®] construcción II Translucent

PROPERTIES	VALUE	TEST METHOD
Basis	Neutral silicone	
Appearance	Paste	
Skin over time	<80 minutes max. (25°C, 50% RH)	ASTM-C-679-87
Full cure	1.6 mm/day (25°C, 50% RH)	ASTM-D-1640
Density	1.01 to 1.03 g/cm ³	ASTM-D-1475-98
VOC	<31 g/L	
Application temperature	-30°C to 55°C	
Continuous operating temperature	-40°C to 160°C	
Elongation	>710 %	ASTM-D-412-98a
Tensile strength	16.30 kgf/cm ²	ASTM-D-412-98a
Hardness, Shore A	23±3	ASTM-C-661-98
Movement capability	± 25%	ASTM-C-719
U.V. Resistance	Excellent	ASTM-G-154

Information obtained from laboratory tests.

pens[®] construcción II Color

PROPERTIES	VALUE	TEST METHOD
Basis	Neutral silicone	
Appearance	Paste	
Skin over time	3-4 hours (22°C, 50% RH)	ASTM-C-679-87
Full cure	1-1.5 mm/day (25°C, 50% RH)	ASTM-D-1640
Density	1.38 to 1.40 g/cm ³	ASTM-D-1475-98
VOC	<21 g/L	
Application temperature	4°C to 50°C	
Continuous operating temperature	-48°C to 121°C	
Elongation	<815 %	ASTM-D-412-98a
Tensile strength	21.30 kgf/cm ²	ASTM-D-412-98a
Hardness, Shore A	22	ASTM-C-661-98
Movement capability	± 50%	ASTM-C-719
U.V. Resistance	Excellent	ASTM-G-154

Information obtained from laboratory tests.

Uses

- Weatherproof perimeter tipping.
- Glass-to-glass joints in glazing.
- Seal planar, suspended and integral facades.



Advantages

- Great movement capability.
- Excellent adhesion to aluminum.
- It does not release acetic acid.
- It adheres to most construction materials.
- Low odor.
- Adhesion to porous surfaces.
- Compatible with all kinds of glass, including the ones with specialties.
- Allows adequate tooling time.
- Low VOC level.

Application

Make sure that surfaces about to seal are steady, dry, clean, and free from dust, grease, oil, water or old sealant. Clean porous surfaces using a brush or pressured air to remove all loose particles. For smooth surfaces (such as glass or metal), clean using a two-rag wipe technique, that consists in wiping the material using a no lint rag wet with isopropyl alcohol, use the second rag to wipe the wet alcohol from the surface before it evaporates, removing all contaminants.

Mask where necessary using Masking Tape on the surface to delineate the area before applying the sealant.

Place pens® construcción II in the caulking gun, cut the upper part of the cartridge, then place the nozzle and cut it in a 45° angle calculating the joint width. Push the gun's trigger pumping the product towards the joint. Apply the sealant on the surface maintaining a regular cord. The minimum joint must be of at least 6 x 6 mm and of maximum 25 mm. Tooling must be done in the opposite way of application using a curved spatula, forcing the sealant into contact with the sides of the joint achieving a better adhesion and eliminating possible internal voids. At the end of the application, remove the mask detaching it in a continuous and steady move in the opposite way of application. Remove the excess of sealant using a rag wet in isopropyl alcohol right after the application.

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.

Recommendations

- Testing is recommended under real application conditions to ensure its correct performance.
- Do not apply on wet surfaces or curing process materials.
- To create an adequate joint and avoid contact with a third surface, it is recommended to use a cylindrical polyethylene or polyurethane extrusion: Sof Rod or HBR (see data sheet).
- Joint range of width and depth from 6mm to 10mm will be 1:1 (width = depth), and for joints wider than 10mm and up to 25mm it will be 2:1 (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

- Do not use as structural sealant.
- Not designed to work water immersed.
- Do not use in surfaces that will require painting.

Presentation

Packaging and Colors



- aluminum
- White
- Black
- Transparent

- Black

**Presentation in sausage only on request, consult colors and manufacturing minimums.*

Coverage

One cartridge lasts 7.75 m, in 6 x 6 mm joints, considering a 7% waste.

Shelf life

12 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.

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