

pens® double glazing

neutral

Technical Data Sheet

pens® double glazing is a silicone sealant, of neutral curing, fast and elastic. Designed to perform the secondary sealing of the double glass units, manufactured with metallic spacers.

Product Data

PROPERTIES	VALUE	TEST METHOD
Chemical base	Neutral	
Aspect	Soft paste	
Skin over time	Aprox. 2 minute (77 °F, 50% RH)	ASTM-C-679-15
Curing Ratio	3 mm/day (77 °F, 50% RH)	ASTM D-1640-14
Density	1.1 to 1.40 g/ml	ASTM-D1475-13
Application temperature	41 °F to 104 °F	
Service Temperature	-40 °F to 248 °F	
Elongation	Aprox. 270%	ASTM-D-412-16
Tensile Strength	Aprox. 144.94 lbf/in ²	ASTM-D-412-16
Shore A Hardness	Aprox. 31	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® double glazing has been designed for:

- Seal double glass units.
- Sealant of metals to glass.
- Weather sealant in glass butt joints.

Advantages

- Fast curing, this increases productivity and makes easy the handling of the modules.
- Do not drip when applying.
- It adheres to most of the substrates without primer.
- Compatible with most of the glasses and metallic spacers used for assembly of double units.

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® double glazing** in a caulk gun, cut the upper part of the cartridge, the 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. The 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.





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Recommendations

- Perform tests under actual application conditions to guarantee its proper operation.
- Do not apply in wet surfaces.
- 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).
- It's important to consider a minimum section of 6 mm depth to make the seal of all the Double Glass Units (UDV). The width could vary depending on the thickness of the spacer that is going to be used.

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

- Do not clean with products that may left residues (like thinner).
- Do not leave in children's reach.

Limitations

- It is not recommended for structural glazing applications (as structural sealant).
- In units with double glass that will be structurally installed.
- It is not recommended for constant water immersion.
- Do not use if the spacers are of flexible foam.

Presentation

Packaging and Colors



- Black

Coverage

A 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.

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

