

pens alumipanel®

neutral

Technical Data Sheet

pens alumipanel® is a single component silicone of neutral curing, specially designed to seal aluminum composite or porcelain panels, preserving its physical and mechanical properties for a long period of time.

Product Data

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 (77 °F, 50% RH)	ASTM D-1640-14
Density	1.38 to 1.40 g/ml	ASTM-D1475-13
VOC	1.2 wt %	WPSTMC 1454
Application temperature	39.2 °F to 122 °F	
Service Temperature	-54.4 °F to 249.8 °F	
Elongation	815 %	ASTM-D-C1135
Tensile Strength	Aprox. 30.6 lbf/in ²	ASTM-D-C1135
Shore A Hardness	22	ASTM-D-2240
Movement Capability	±50%	ASTM-C-719
U.V. Resistance	Excellent	ASTM-G-154

Information obtained from laboratory tests.

Uses

pens alumipanel® has been designed for:

- Sealing joints on ventilated facades of aluminum composite panel.
- Seal in advertising of aluminum composite panels
- Seal for lining with interior and exterior aluminum composite panel in columns, walls and false ceiling
- For weather seals in porcelain facades and painted metallic panels.

Advantages

- Low module.
- Excellent movement capacity.
- Excellent adhesion to aluminum composite panel
- Compatible with Kynar® paints.
- UV resistant.
- Adhere to most of painted sheets.
- Great performance before salt moisture.
- Allow the proper time for passing again
- Acid rain resistant.
- Low VOC (Volatile Organic Compound) 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 **alumipanel®** 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.





pens alumipanel®

neutral

Technical Data Sheet

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 where is required the compliance of FDA or USDA.
- It is not paintable.

Presentation

Packaging and Colors



- Aluminum
- Black
- White*

*Special colors only under request

Coverage

A cartridge lasts 7.75 m, in 6 x 6 mm joints, 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.

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

*Trademarks registered by Productos Pennsylvania S.A. de C.V.
Date of production: **March 2023**

the caulking expert

