

pens[®] HI-BOND

technical data sheet • adhesive

pens[®] HI-BOND is a one-component, high resistance, high modulus, fast curing hybrid polymer adhesive. It has exceptional adhesive and mechanical properties, which lasts for a long time.

Product Data

PROPERTIES	VALUE	TEST METHOD
<i>Basis</i>	Hybrid	
<i>Appearance</i>	Paste	
<i>Skin over time</i>	10-15 minutes (25 °C y 50% HR)	ASTM-C-679-87
<i>Full cure</i>	2-3 mm/day (25 °C y 50% HR)	ASTM D-1640
<i>Density</i>	1.50-1.60 g/ml	ASTM-D1475-98
<i>VOC</i>	<36 g/L	
<i>Application temperature</i>	5 °C to 40 °C	
<i>Service temperature</i>	-40 °C to 100 °C	
<i>Elongation</i>	>350%	ASTM-D-412-98a
<i>Tensile strenght</i>	>22.43 kgf/cm ²	ASTM-D-412-98a
<i>Hardness, Shore A</i>	60	ASTM- C-661-98

Information obtained from laboratory tests.



Uses

pens[®] HI-BOND has been fundamentally designed to stick (indoors or outdoors):

- Prefabricated material panels.
- Wooden baseboard, floor tiles, etc.
- Various construction and decoration materials.
- Porcelain or ceramic pieces and glazed ceramic tiles to wall.
- Bathroom accessories.

Advantages

- Great initial strength.
- Fast cure rate.
- Low VOC level.
- Excellent load capability.
- It does not release any kind of acid.
- It can be applied on humid surfaces.

Application

Make sure that surfaces about to seal are dry, clean, and free from dust, saltpeter, oil or old sealant. Some substrates could require being cut or grinded in order to achieve a steady surface. Clean using a no lint rag wet with a free from oil solvent such as isopropyl alcohol, right after cleaning, wipe the surface using a second dry rag (it is not recommended to leave the solvent dry by itself).

Cut the upper part of pens HI-BOND cartridge, place the nozzle and put the cartridge in the caulking gun. Push the gun's trigger pumping the product in vertical cords towards the surface. To apply correctly, hold the gun in a 90° angle, perpendicular to the surface, with the triangular cavity on the nozzle pointing to the front so it forms a triangular cord (when applying several cords, consider a 10 to 20cm gap between them to ensure correct curing).

Once applied tool if necessary with a plastic, dented spatula covering as much surface as possible (recommended for regular, flat surfaces and leaving a 3mm thickness).

Place the substrate to adhere applying pressure to ensure correct contact, leaving the adhesive a 2 to 3 mm thickness.

Recommendations

- Testing is suggested under real application conditions to ensure its correct performance
- Do not apply on wet surfaces or curing process materials.
- If temporary reinforcements are needed, they can be removed 24 hours after the application.

Maintenance

- It does not require any maintenance.

Precautions

- Make sure the surface where you are about to stick the materials is strong enough. When sticking on coatings such as concrete, cement or plaster, wait until they have reached full cure. If the surface is painted, wait until it is completely dry.

Limitations

- Do not use as adhesive in structural glazing systems.
- **pens[®] HI-BOND** is not resistant to UV exposure, therefore when applying outside make sure it stays confined.

Presentation

Packaging and colors



- White

Coverage

One cartridge lasts 10.6 m, in triangular section of 7 x 7 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 dimensions calculus.

Compatibility and adhesion testing of our sealants with different materials.

Soporte técnico: 01 800 90 210 00
soporte.tecnico@pennsylvania.com.mx
pennsylvania.com.mx

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.