

pens® HI-BOND

hybrid adhesives

Technical Data Sheet

pens® HI-BOND is a single component adhesive based in a hybrid polymer of high module of fast curing of high resistance and exceptional mechanical and adhesive properties, that are preserved for long term.

Product Data

| PROPERTIES | VALUE | TEST METHOD |
|-------------------------|-----------------------------------|--------------------------|
| Chemical base | Hybrid | |
| Aspect | Soft paste | |
| Skin over time | 10-15 minutes (77 °F, 50% RH) | DBTM 16 |
| Curing Rate | 2-3 mm/day (77 °F, 50% RH) | |
| Density | 1.50 to 1.60 g/ml | ISO 1183-1 |
| Application temperature | 41 °F to 104 °F | |
| Service Temperature | -40 °F to 212 °F | |
| Tensile Strength | Aprox. 319.02 lbf/in ² | DIN 53504 S ₂ |
| Shore A Hardness | 55 | DIN 53505 S ₃ |

Information obtained from laboratory tests.

Uses

pens® HI-BOND has been designed for:

- Prefabricated materials panels.
- Wooden clogs, tiles, etc.
- Different construction and decoration materials.
- Porcelain, tiles, ceramics in wall, etc.
- Bath accessories.

Advantages

- Great initial grip.
- Fast curing.
- Low VOC (Volatile Organic Compounds) level.
- Excellent load capacity.
- It does not release any type of acid.
- It could be applied in wet surfaces.

Application

The surfaces to be pasted shall be firm, dry, clean free of dust, grease, oil, and water. 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. Cut the upper part of the cartridge and place the pipette included with a "V" form and insert the cartridge in a caulk gun. Apply vertical cords on the mirror placing the gun at 90° and with the triangular cavity of the pipette in "V" to the front, so when moving the gun, it is generated a triangular cord, in case there are several cords consider a separation of 10 and 20 cm between them to guarantee the curing. Once applied the cords and if it is necessary it could be passed again with a serrated plastic spatula to cover the largest area possible (advisable for completely flat or regular surfaces and leave a minimum thickness of 2 to 3 mm). Place the substrate on the surface to paste pressing it to make contact with the adhesive properly and leaving as minimum a thickness of 2 to 3 mm.





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Recommendations

- Perform tests under actual application conditions to guarantee its proper operation.
- Do not apply in wet surfaces or materials in curing process.
- When needed, place temporary fasteners, in heavy articles. These could be removed in 24 hours.

Maintenance

- It does not require any maintenance, however.

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 adhesive in structural glazing systems.
- It does not have UV protector, therefore for external application it shall be confined.

Presentation

Packaging and Colors

- White



Coverage

A cartridge yields approximately 11.00 m, in triangular section of 7 x 7 mm, considering a 7% waste.

Shelf Life

15 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

